

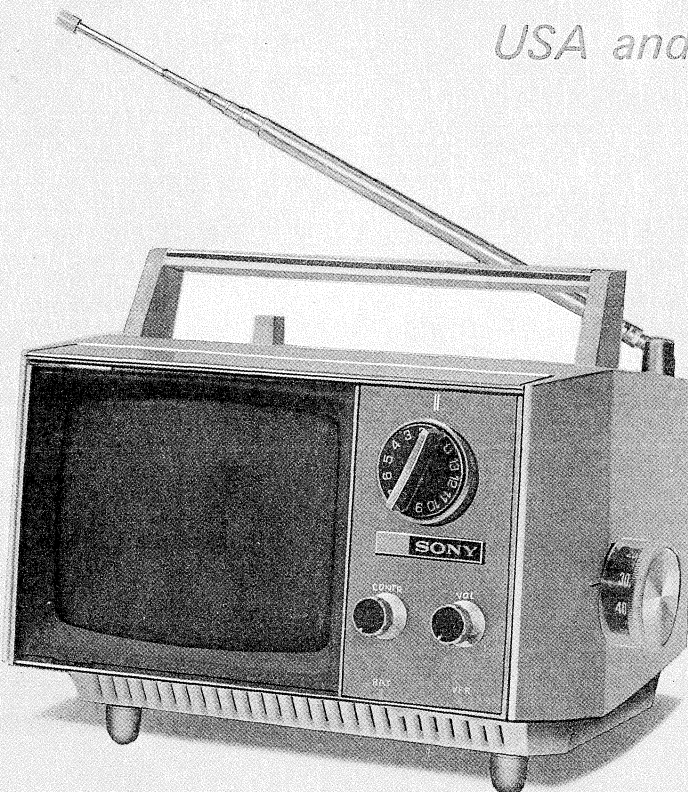


Set using ISO screws

TV-510U

BP-21

USA and CANADA Model



SPECIFICATIONS

| | | | |
|-----------------------------|--|-----------------------------------|--|
| TV-signal Standards: | American TV-standard | Sound System: | 4.5 MHz intercarrier system Power output stage; OTL system 350 mW Speaker; 2 $\frac{3}{4}$ " (7 cm), 40 ohms |
| Picture Tube: | 5" (measured diagonally), 70° deflection aluminized screen 140CB4 | Automatic Control Systems: | Forward agc Single pulse afc |
| Semiconductors: | 23 transistors and 14 diodes | Power Requirements: | AC 117V, 60 Hz DC 12V |
| Channel Coverage: | VHF; ch. A2-A13 UHF; ch. A14-A83 | Power Consumption: | AC 13W (maximum) DC 8.6W (maximum) |
| Antenna System: | Built-in telescopic antenna Terminals for 75-ohm external antenna | Dimensions: | 8 $\frac{3}{4}$ " (W) x 7" (H) x 8 $\frac{7}{8}$ " (D) (223 mm x 178 mm x 225 mm) |
| Tuner System: | VHF; Disc turret type UHF; Continuous tuning type | Weight: | 7 lb 8 oz (3.4 kg) |
| VIF Circuit: | 3 stages with 4 stagger tuned element Picture i-f carrier; 45.75 MHz Sound i-f carrier; 41.25 MHz | | |

SONY®

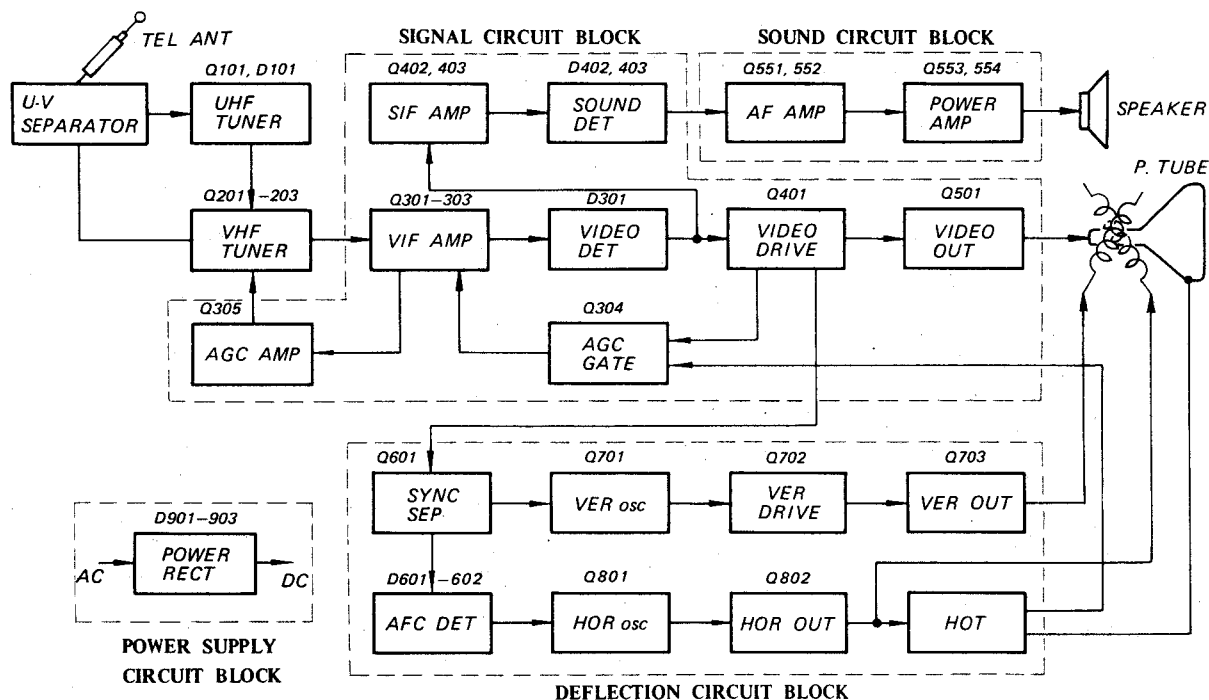
SERVICE MANUAL

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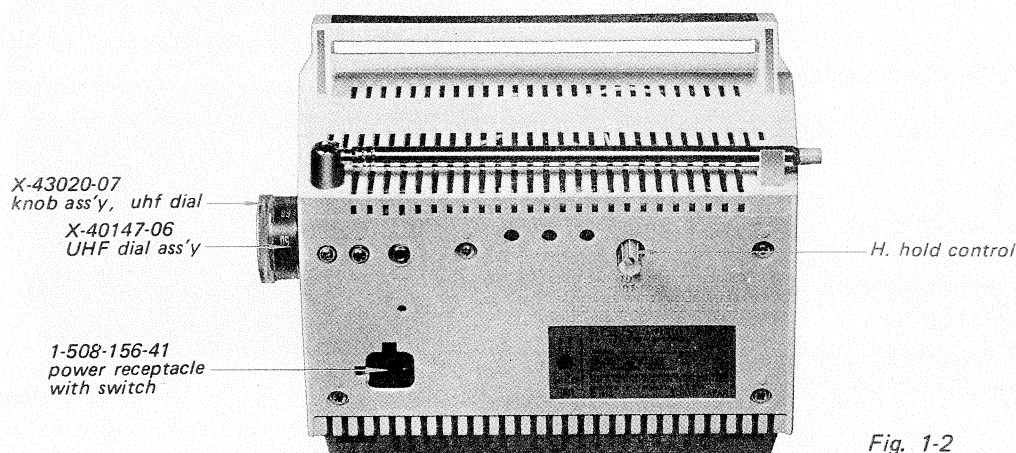
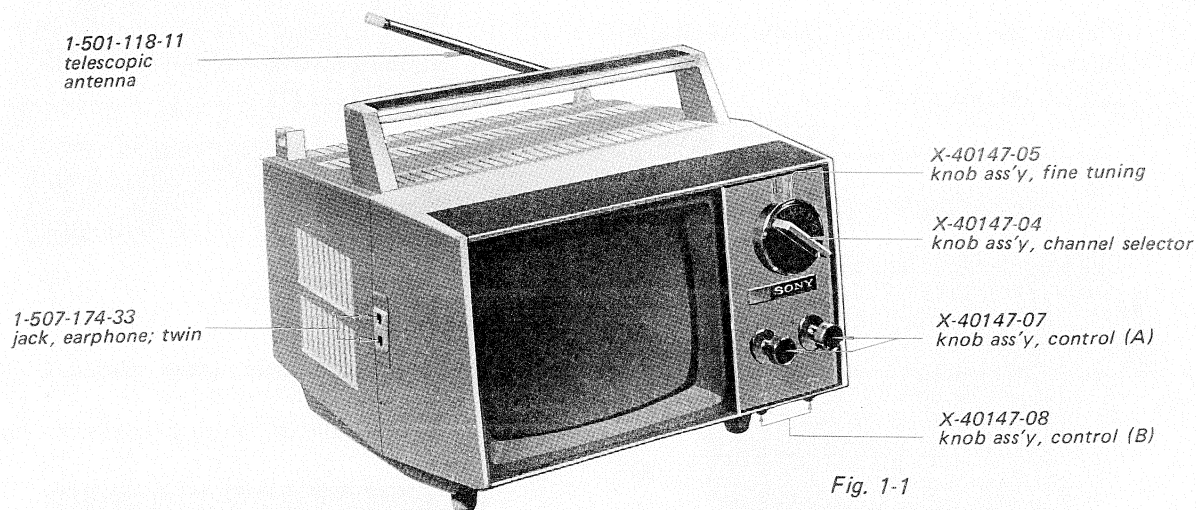
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SECTION 1 OUTLINE

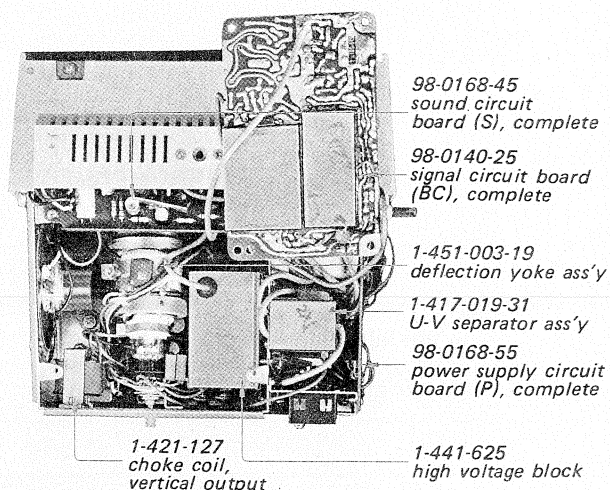
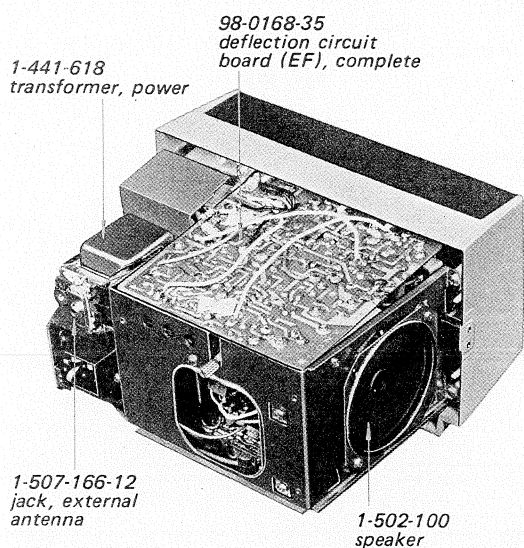
1-1. BLOCK DIAGRAM



1-2. EXTERNAL VIEW



1-3. INTERNAL VIEW



SECTION 2 DISASSEMBLY

2-1. REAR CABINET REMOVAL

1. Remove the five screws labeled A1–A5 in Fig. 2-1.
2. Take off the rear cabinet.

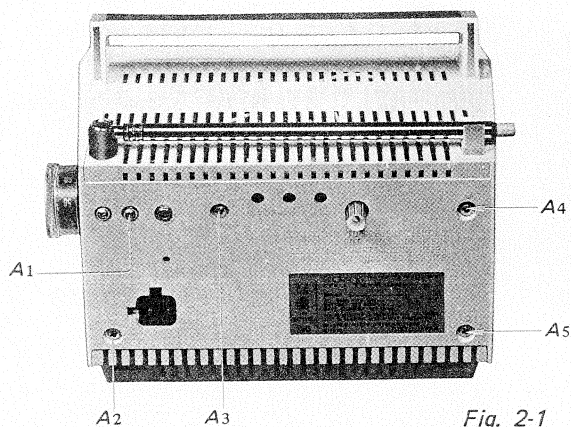


Fig. 2-1

2-2. CIRCUIT BOARD REMOVAL

Remove the rear cabinet to perform the following steps:

Sound Board (S)

1. Remove the two screws labeled B1 and B2 in Fig. 2-2.
2. Pull out the S-board in the direction shown by the arrow in Fig. 2-2.
3. Unsolder the four PVC leads and one shielded cable illustrated in Fig. 2-3.

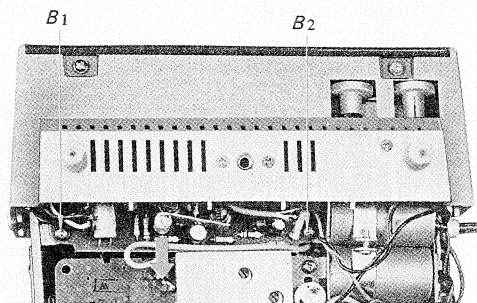


Fig. 2-2

Signal Board (BC)

1. Remove the three screws labeled C1–C3 in Fig. 2-4.
2. Take off the BC board as shown in Fig. 2-4.

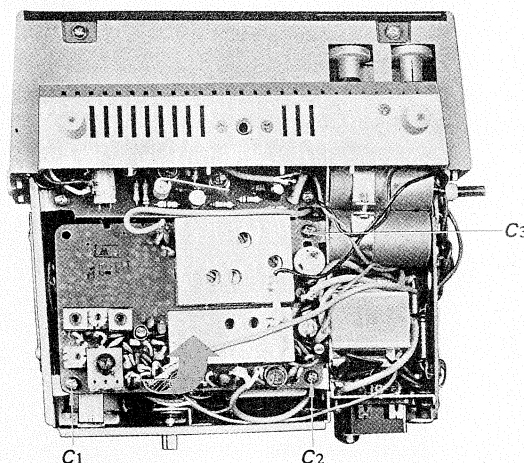


Fig. 2-4

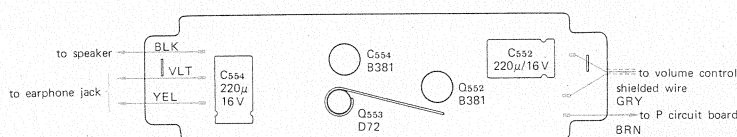


Fig. 2-3

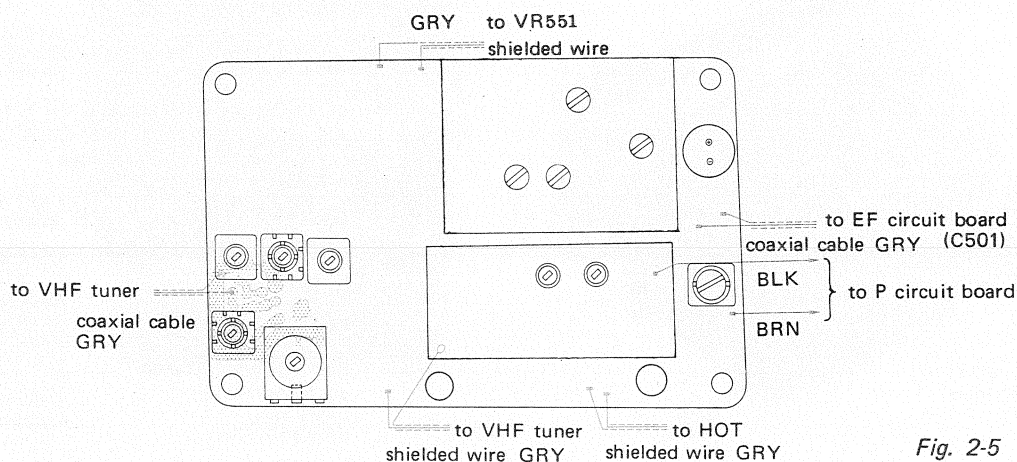


Fig. 2-5

Power Board (P)

1. Remove a screw labeled D1 in Fig. 2-6.
2. Unsolder the two terminals of a electrolytic capacitor labeled E1 in Fig. 2-6 and then lift off the P board.

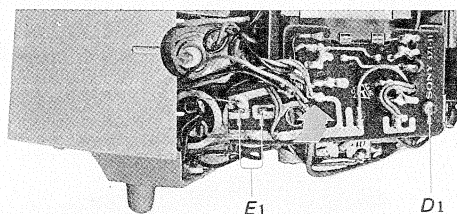


Fig. 2-6

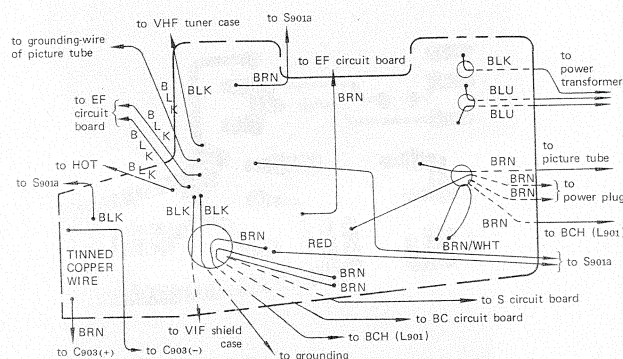


Fig. 2-7

Deflection Board (EF)

1. Remove the four screws labeled F1-F4 in Fig. 2-8.
2. Pull up the EF board as shown in Fig. 2-8.
3. Pull off the seven pin-plugs labeled G1-G7 in Fig. 2-9.
4. Turn the EF board in the direction shown by the arrow in Fig. 2-8.

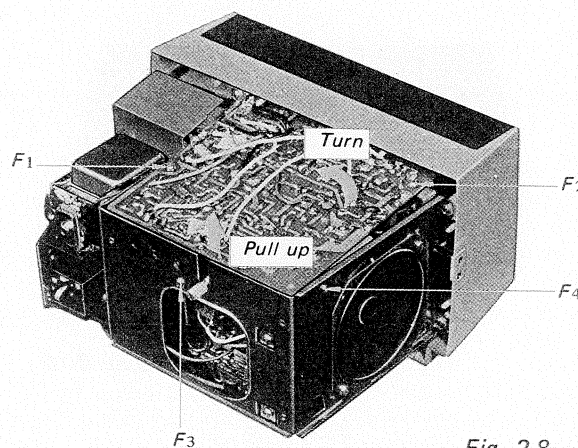


Fig. 2-8

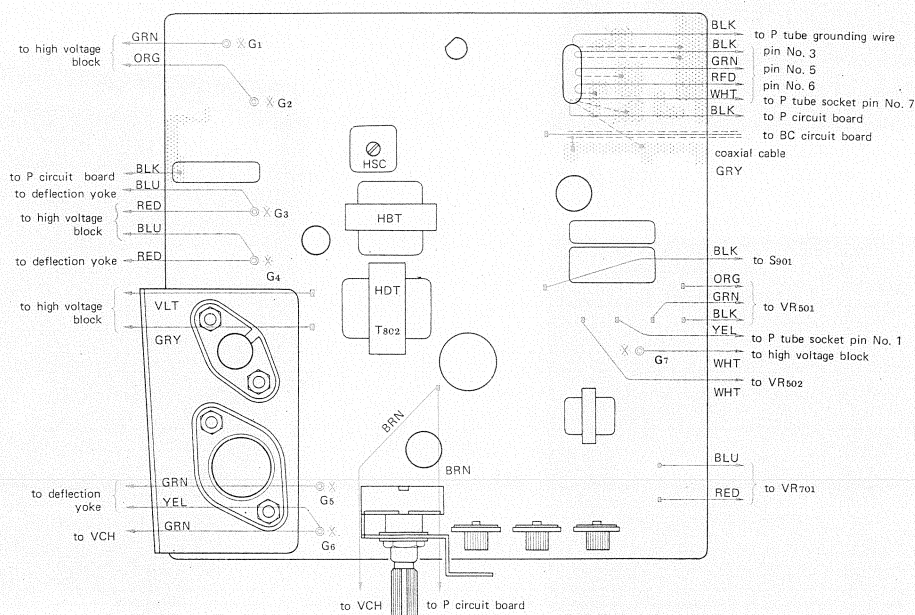


Fig. 2-9

2-3. PROTECTOR REMOVAL

1. Pull off four front-panel knobs as shown in Fig. 2-10.
2. Remove the two screws labeled H1 and H2 in Fig. 2-10.
3. Remove the protector.

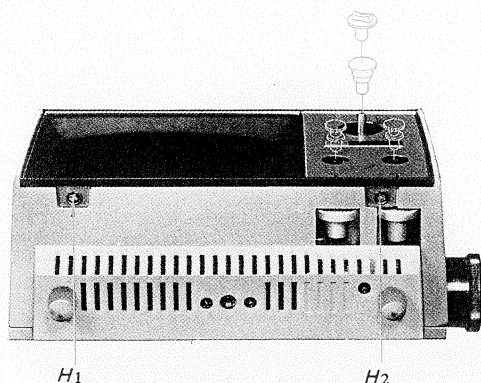


Fig. 2-10

4. Remove the four screws labeled L1–L4 in Figs. 2-13 and 2-14.
5. Remove the S board.
6. Pull off the picture tube socket shown in Fig. 2-15.
7. Remove the anode cap shown in Fig. 2-15.
8. Unsolder the two grounding-wires shown in Fig. 2-15.
9. Remove the front cabinet with picture tube from the chassis carefully.

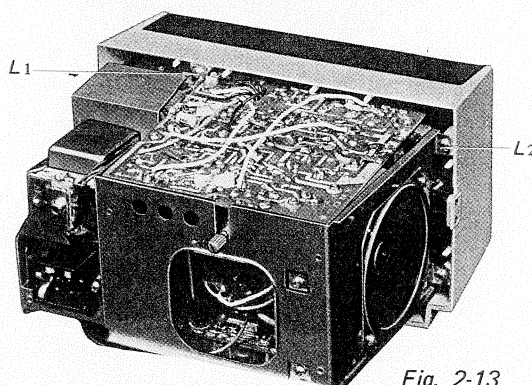


Fig. 2-13

2-4. FRONT CABINET REMOVAL

1. Remove the rear cabinet and protector.
2. Remove the screw labeled J1 in Fig. 2-11.
3. Remove the two screws labeled K1 and K2 in Fig. 2-12.

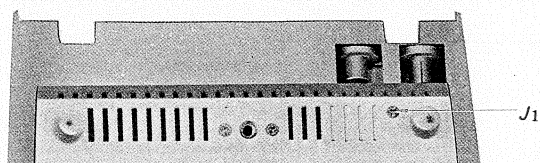


Fig. 2-11

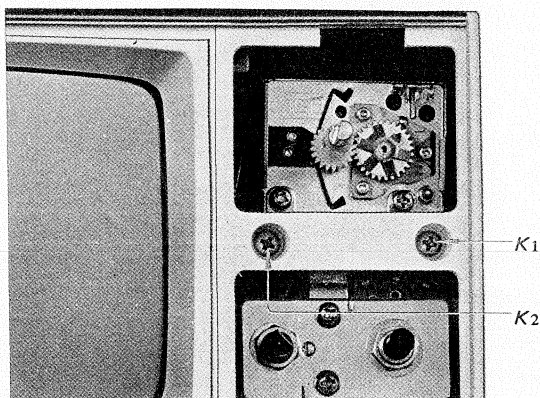


Fig. 2-12

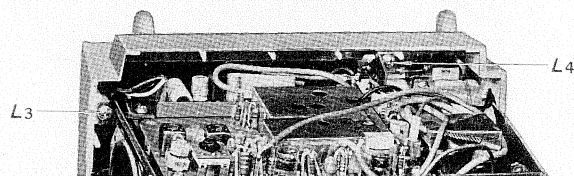


Fig. 2-14

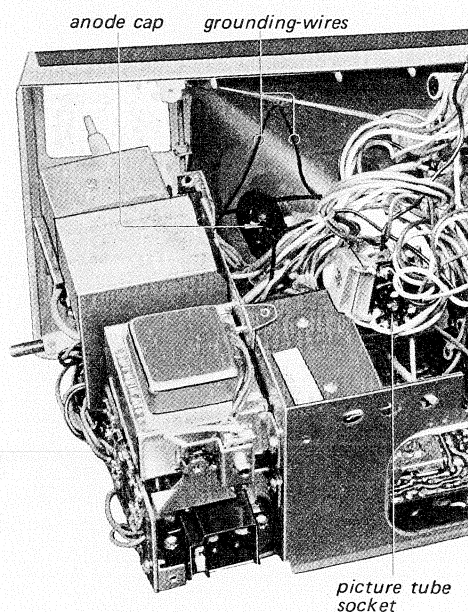


Fig. 2-15

2-5. SPEAKER REMOVAL

1. Remove the rear cabinet.
2. Remove the two screws labeled M1 and M2 in Fig. 2-16.
3. Unsolder the two leads on the speaker terminals.
4. Replace the speaker carefully.

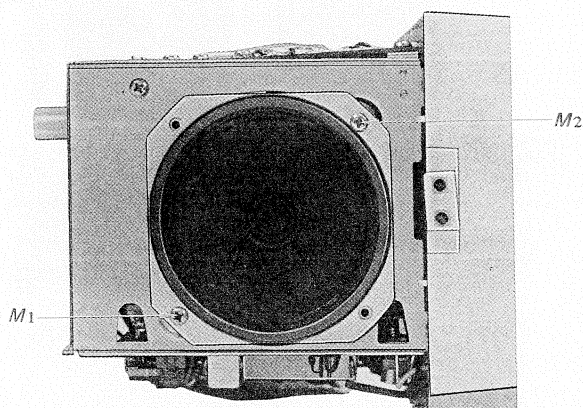


Fig. 2-16

2-6. HIGH VOLTAGE BLOCK REMOVAL

1. Remove the rear cabinet and EF board.
2. Remove the two screws labeled N1 and N2 in Fig. 2-17.

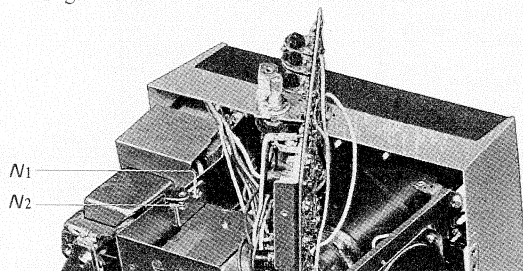


Fig. 2-17

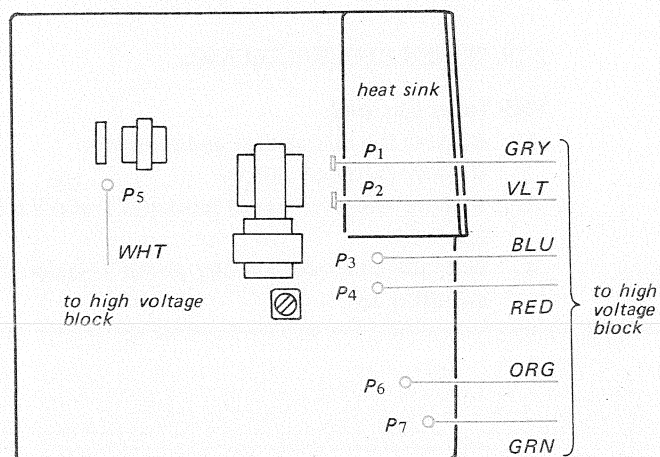


Fig. 2-18

3. Unsolder the four lead-wires on the EF board labeled P1–P4 in Fig. 2-18.
4. Pull out the three pin-plugs on the EF board labeled P5–P7 in Fig. 2-18.

2-7. PICTURE TUBE REMOVAL

1. Remove the rear cabinet and protector.
2. Remove the BC circuit board. (See Procedure 2-2).
3. Loosen a screw labeled Q1 in Fig. 2-19.
4. Remove the front cabinet.
5. Pull out the deflection yoke.
6. Remove the four screws labeled R1–R4 in Fig. 2-20.
7. Loosen a screw labeled S1 in Fig. 2-20.

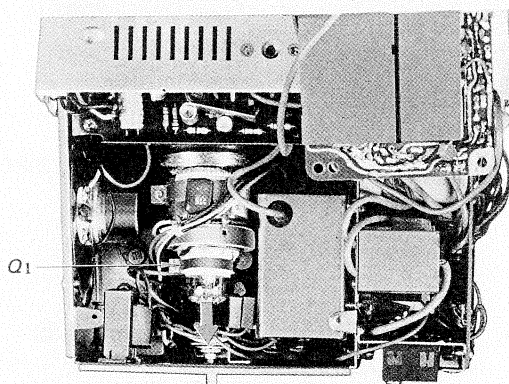


Fig. 2-19

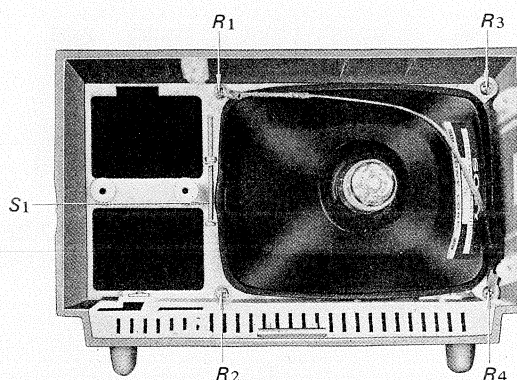


Fig. 2-20

2-8. VOLUME AND CONTRAST CONTROLS REMOVAL

1. Remove the protector.
2. Remove the two screws labeled T1 and T2 in Fig. 2-21.
3. Pull out the volume and contrast controls as shown in Fig. 2-23.

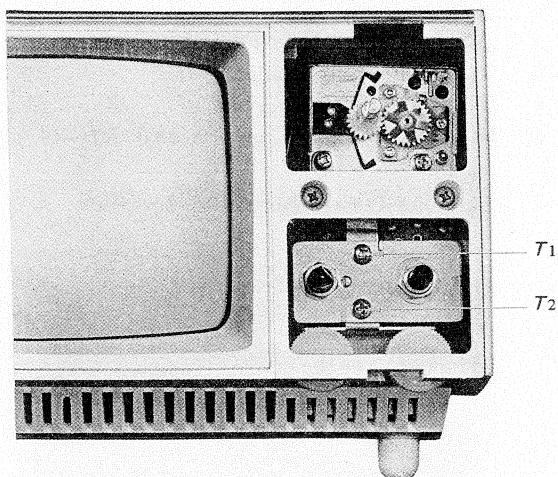


Fig. 2-21

2-9. VERTICAL HOLD AND BRIGHTNESS CONTROLS REMOVAL

1. Remove the protector.
2. Remove the volume and contrast controls.
3. Remove a screw labeled U1 in Fig. 2-22.
4. Pull out the vertical hold and brightness controls as shown in Fig. 2-23.

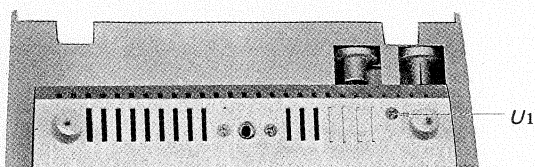


Fig. 2-22

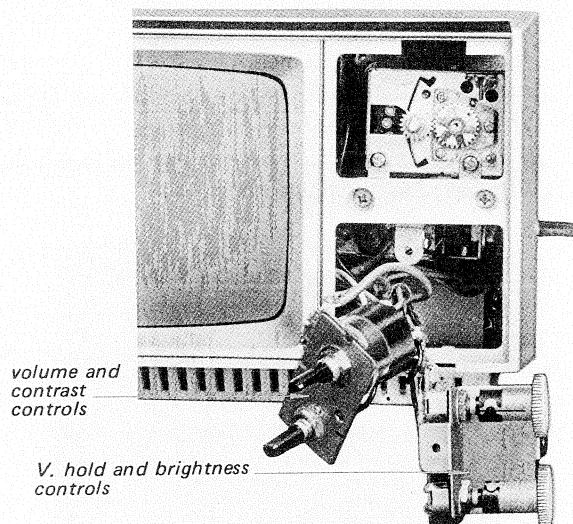


Fig. 2-23

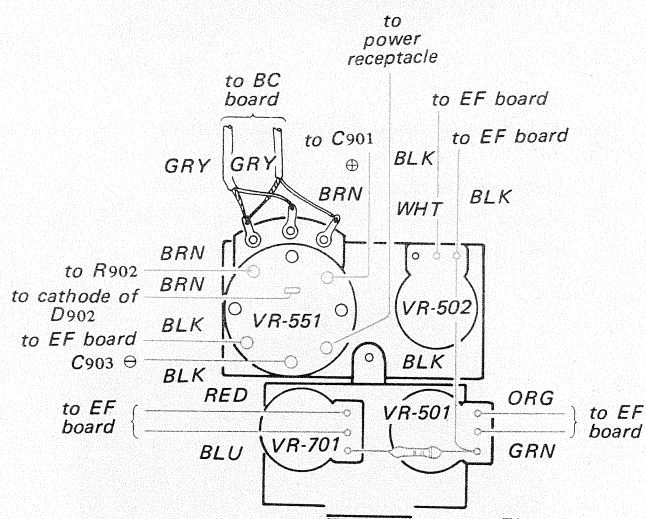


Fig. 2-24

2-10. TUNER BLOCK REMOVAL

VHF Tuner Removal

1. Remove the rear cabinet and protector.
2. Remove the front cabinet.
3. Remove the two screws labeled V1 and V2 in Fig. 2-25.
4. Push the tuner toward the power transformer and lift it up.

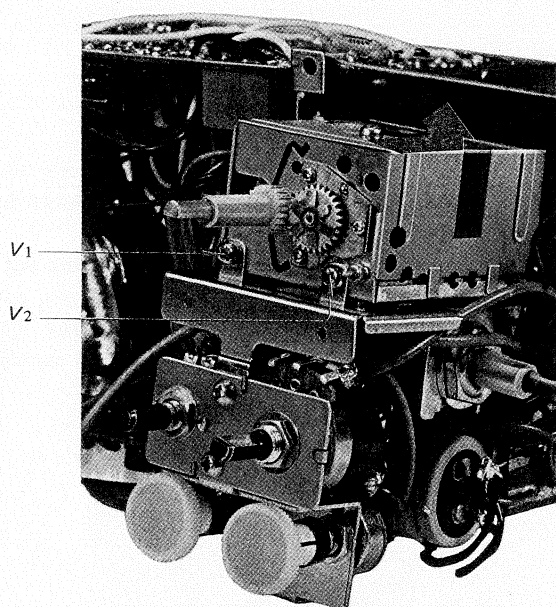


Fig. 2-25

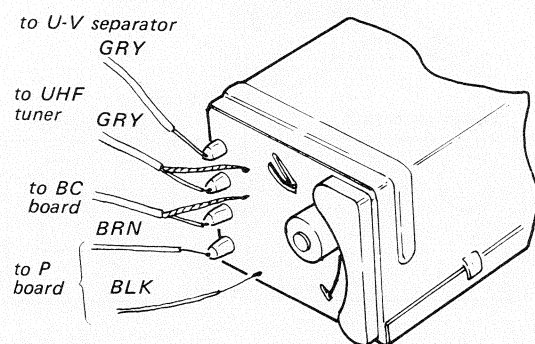


Fig. 2-26

UHF Tuner Removal

1. Remove the rear cabinet and protector.
2. Remove the front cabinet and VHF tuner.
3. Remove the two screws labeled W1 and W2 in Fig. 2-27.
4. Loosen a nut labeled X1 in Fig. 2-28.
5. Take off the UHF tuner carefully.

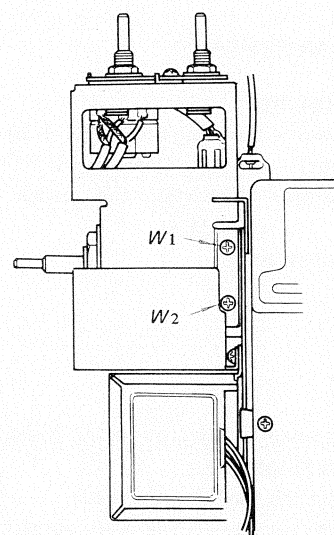


Fig. 2-27

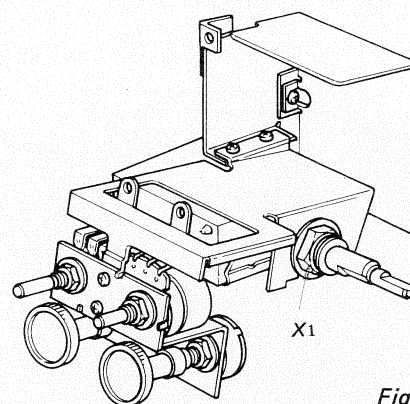


Fig. 2-28

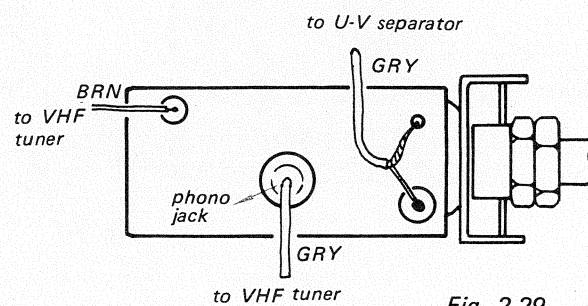


Fig. 2-29

SECTION 3 CIRCUIT ADJUSTMENT

3-1. VIF ADJUSTMENTS

Equipment Required:

Sweep generator — covering the range of 39 ~ 48 MHz

Signal generator — covering the range of 33 ~ 35 MHz

Marker generator — covering the range of 39 ~ 48 MHz

Rheostat — 250 k ohm

Oscilloscope

VOM

Preparations:

1. Set the channel selector to the highest inactive channel in the area.
2. Unsolder the keying-pulse lead.
3. Connect a scope to the VIF output terminals through a noise filter consisting of a 10-k ohm resistor and a 300-pF capacitor as shown in Fig. 3-1.

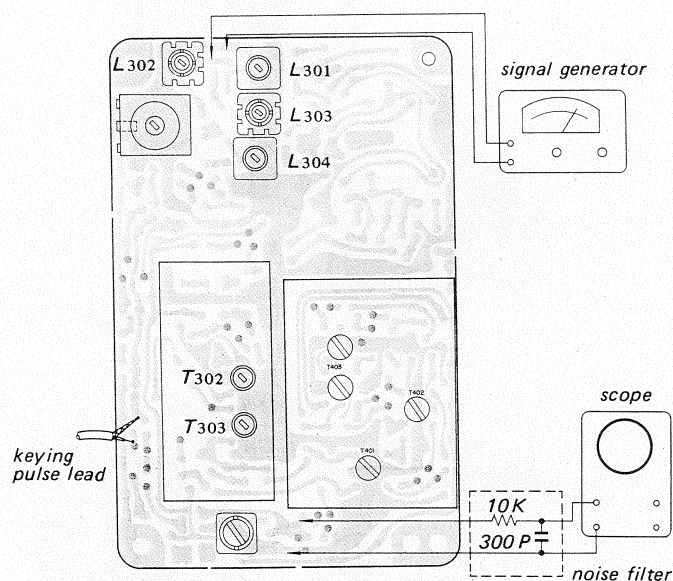


Fig. 3-1

39.75 MHz, 41.25 MHz and 47.25 MHz Trap Adjustments

1. Connect the VIF INPUT cable.
2. Connect a sweep generator to the tuner's test point through a 0.01-μF capacitor as shown in Fig. 3-2.
3. Loosely couple a marker generator to the output lead of the sweep generator.
4. Make the adjustments specified in TABLE 3-1 to produce the trap response curve as shown in Fig. 3-3.

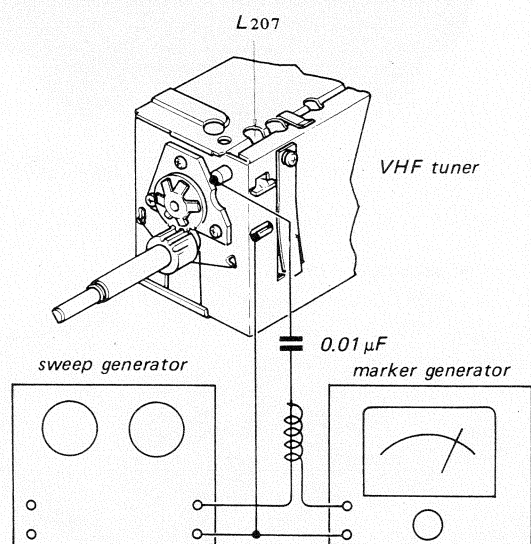


Fig. 3-2

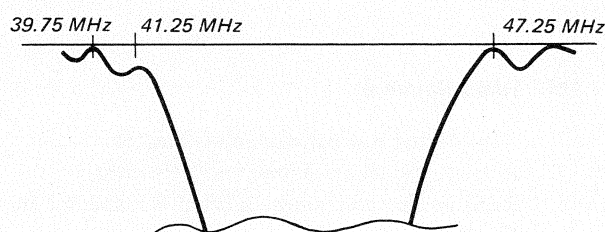


Fig. 3-3

33.75 MHz Trap Adjustments

1. Unsolder the VIF INPUT cable.
2. Connect a signal generator (33.75 MHz with 1 kHz 40% AM modulation) to the point where the VIF INPUT cable was connected as shown in Fig. 3-1.
3. Adjust the core of L304 for minimum 33.75 MHz modulated waveform on the scope.
4. Disconnect the signal generator.

VIF Response Curve Adjustments

1. Unsolder the VIF INPUT cable.
2. Connect a 250-k ohm rheostat across a resistor R326 as shown in Fig. 3-4.
3. Connect a VOM between the emitter of Q301 and grounding point as shown in Fig. 3-4.
4. Set the 250-k ohm rheostat to indicate 1.35 to 1.5 V on the VOM.

5. Disconnect the VOM.
6. Connect the VIF INPUT cable.
7. Connect a sweep generator and a marker generator to the tuner's test point as shown in Fig. 3-2.
8. Connect a scope to the VIF output terminals through a noise filter as shown in Fig. 3-1.
9. Set the marker generator to produce 44 MHz marker signal.
10. Adjust the output of sweep generator so that the 44 MHz marker on the VIF response curve indicates 15.5 Vp-p on the scope as shown in Fig. 3-5.
11. Make the adjustments specified in TABLE 3-2 to produce the VIF response curve as shown in Fig. 3-5.
12. Adjust the coil L207 in the tuner when satisfactory VIF response curve is not obtain by the foregoing Procedures.
13. Disconnect the sweep generator and scope.
14. Resolder the keying-pulse lead.

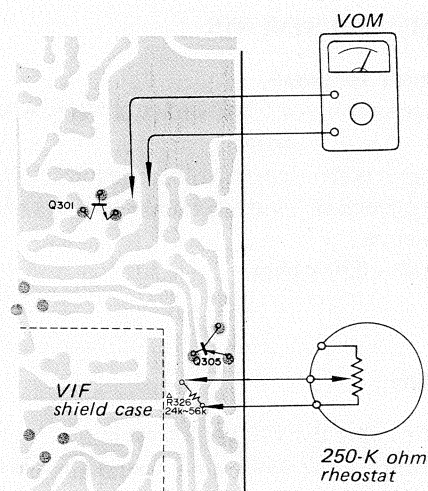


Fig. 3-4

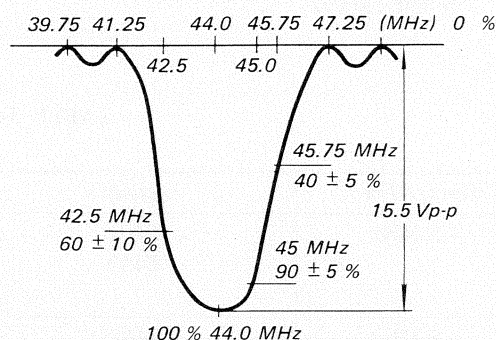


Fig. 3-5

TABLE 3-1. VIF TRAP ADJUSTMENTS

| Marker Freq. | Adjust | Remarks |
|--------------|--------|--|
| 39.75 MHz | L303 | Adjust the coil for minimum indication on the scope. |
| 41.25 MHz | L301 | Same as above. |
| 47.25 MHz | L302 | Same as above. |

TABLE 3-2. VIF RESPONSE CURVE ADJUSTMENTS

| Marker Freq. | Adjust | Remarks |
|--------------|---------------------|---|
| 44.0 MHz | T302 (pink core) | Adjust T302 for maximum distance between the marker point and baseline. |
| 44.0 MHz | T303 (blue core) | Adjust T303 for maximum distance between the marker point and baseline. |

3-2. SIF ADJUSTMENTS

Equipment Required:

Signal generator — 4.5 MHz with 1,000 Hz AM modulation

Sweep generator — covering the range 4 to 5 MHz

Marker generator — covering the range 4 to 5 MHz

Oscilloscope

Rheostat — 250-k ohm

Procedure:

1. Unsolder the VIF INPUT cable.
2. Connect the 250-k ohm rheostat across resistor R326 as shown in Fig. 3-4.
3. Set the 250-k ohm rheostat to make all video noise disappear from the screen of picture tube. (blank raster)
4. Connect a signal generator to the video-detector output as shown in Fig. 3-6.
5. Set the brightness control for optimum brightness and the contrast control fully clockwise position.
6. Adjust coil L402 for minimum 4.5 MHz stripes in the picture as shown in Fig. 3-7.
7. Disconnect the signal generator.
8. Connect a sweep generator to the video-detector output as shown in Fig. 3-6.
9. Loosely couple a marker generator to the output lead of the sweep generator.
10. Unsolder the SIF output cable.
11. Connect a dummy resistor (5-k ohm) across the input terminals of scope as shown in Fig. 3-8.
12. Connect a scope to the SIF output terminals (C420) as shown in Fig. 3-8, then make the adjustments specified in the following TABLE 3-3.

TABLE 3-3. SIF ADJUSTMENTS

| Marker Freq. | Adjust | Remarks |
|--------------|---------------------|--|
| 4.5 MHz | T401 T402 | Turn up sweep output signal to produce an S curve. Adjust T401 and T402 for maximum deflection on the scope. |
| 4.5 MHz | T403 (pink core) | Turn the core to make the S curve symmetrical. |
| 4.5 MHz | T403 (blue core) | Turn the core to cross the baseline at 4.5 MHz on the S curve. |

Note: Repeat the above steps as necessary to produce the waveform as shown in Fig. 3-9.

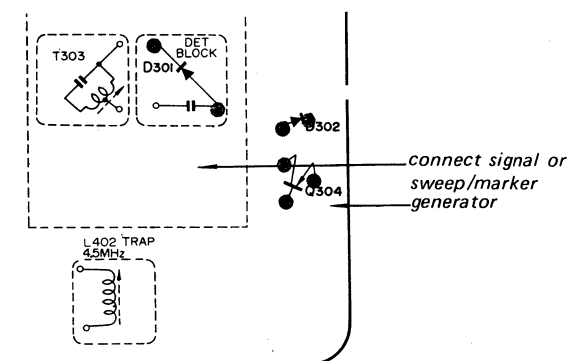


Fig. 3-6

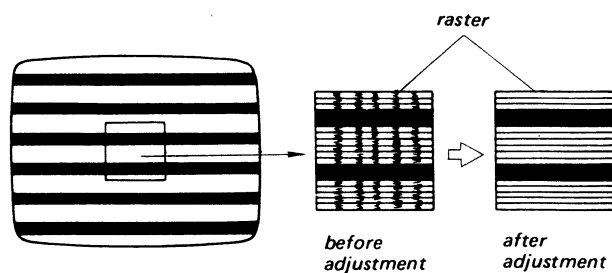


Fig. 3-7 4.5 MHz trap adjustment

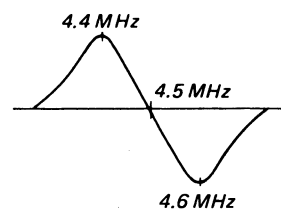


Fig. 3-9 SIF adjustment curve

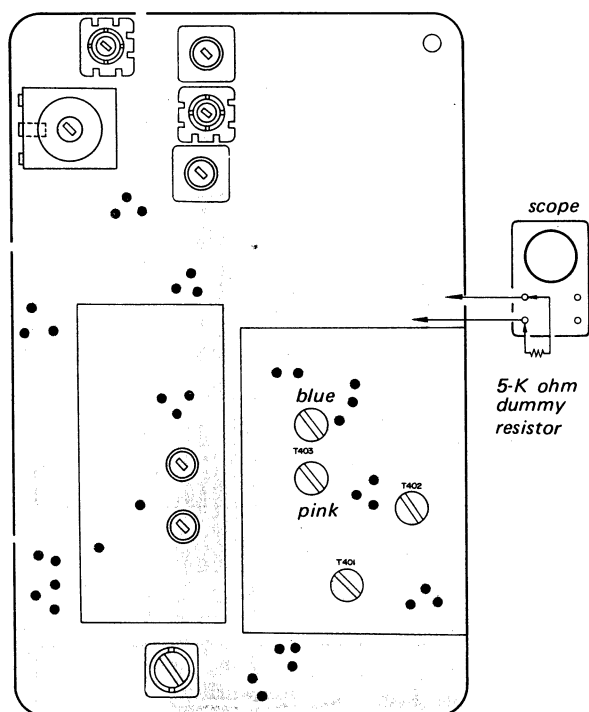


Fig. 3-8

3-3. DEFLECTION CIRCUIT ADJUSTMENTS

| Step | Adjustment for | Preliminary Instruction | Equipment | Connection | Adjust | Remarks |
|------|---------------------------------------|--|-----------|-----------------|---|--|
| 1 | Collector current of Q501 (VIDEO OUT) | Set the tuner to an inactive channel. Check 12V and 50V (across C504) power supply. | VOM | Across R504 | R502 (43k – 68k) | For approx. 16 – 18 V reading. |
| 2 | Collector current of Q703 (VER OUT) | Adjust V and H hold controls for correct sync. Check 12V power supply. | VOM | Across R714 | R711 (1600 – 2200) | For approx. 0.32 – 0.33 V reading. |
| 3 | Vert. Height and Linearity | Receive a test pattern. Check 12V power supply. | | | VR702 (Vert. Height) VR703 (Vert. Linearity) | For optimum vertical height and linearity on the picture. |
| 4 | Pulse width | Adjust V and H hold controls for correct sync. | scope | Emitter of Q801 | C804 (0.047 – 0.22 μ F) | For 8.5 – 9.0V used in Fig. 3 – 10. |
| 5 | HSC (Hor. stabilizing coil) | Adjust V and H hold controls for correct sync. Receive a test pattern. | | | HSC | So that the picture is stable in either case whether HSC is shorted or normal. |
| 6 | Horizontal width | Adjust V and H hold controls for correct sync. Set the brightness control to optimum position. | scope | | C808 (0 – 0.015 μ F) | For optimum picture width. |
| 7 | Focus | Same as above. Adjust V and H hold controls for correct sync. | | | VR801 (600k ohm) | To obtain best focus. |

Waveform of Horizontal Oscillator Transistor Q801 (Emitter)

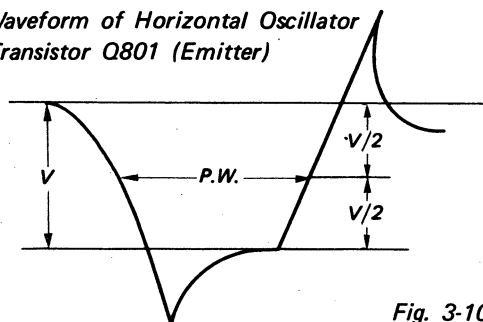


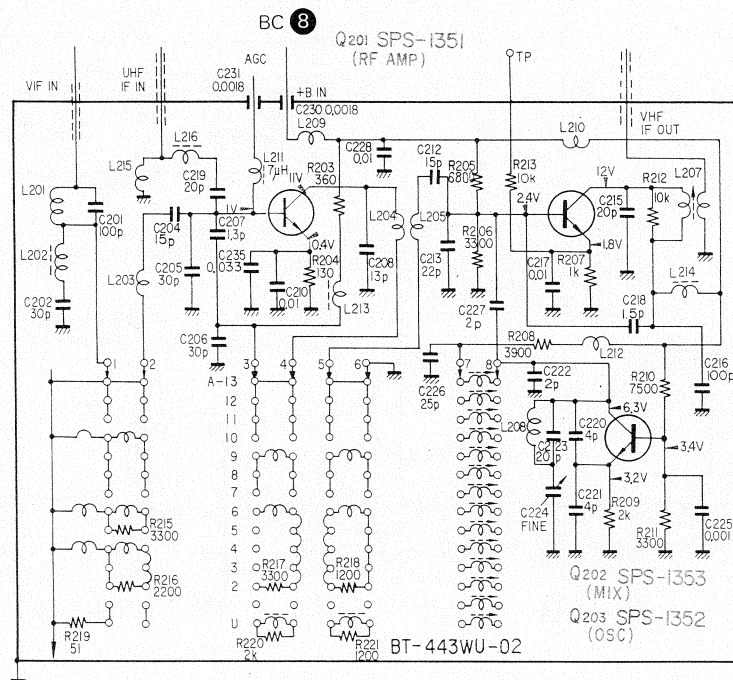
Fig. 3-10

SECTION 4

SCHEMATIC AND MOUNTING DIAGRAMS

4-1. VHF TUNER

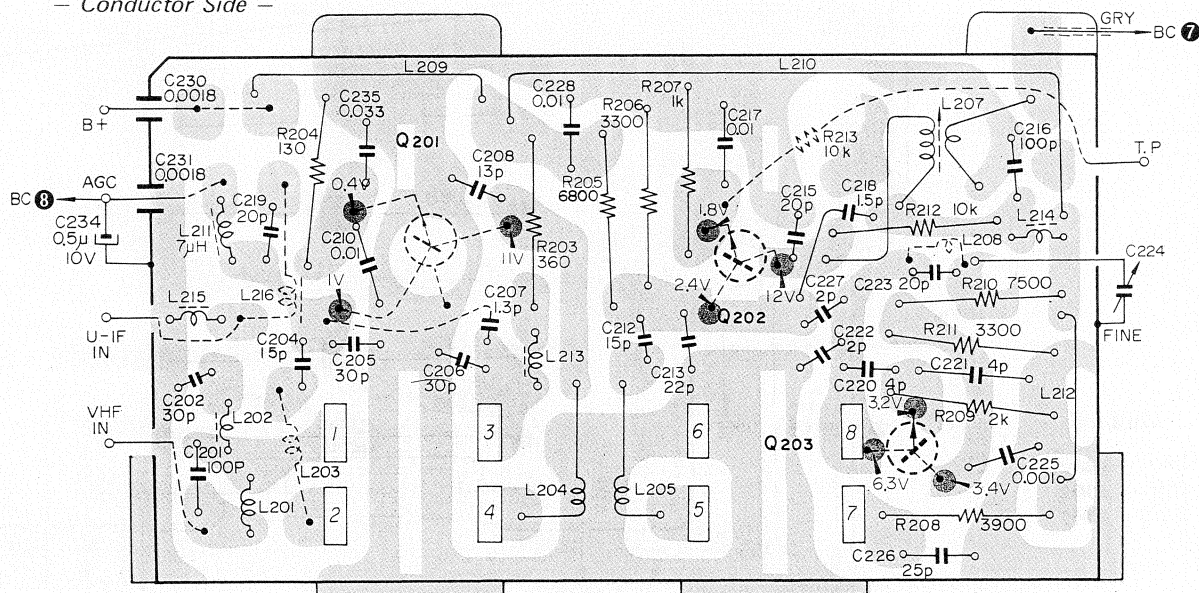
SCHEMATIC DIAGRAM



4-2. VHF TUNER

MOUNTING DIAGRAM

— Conductor Side —



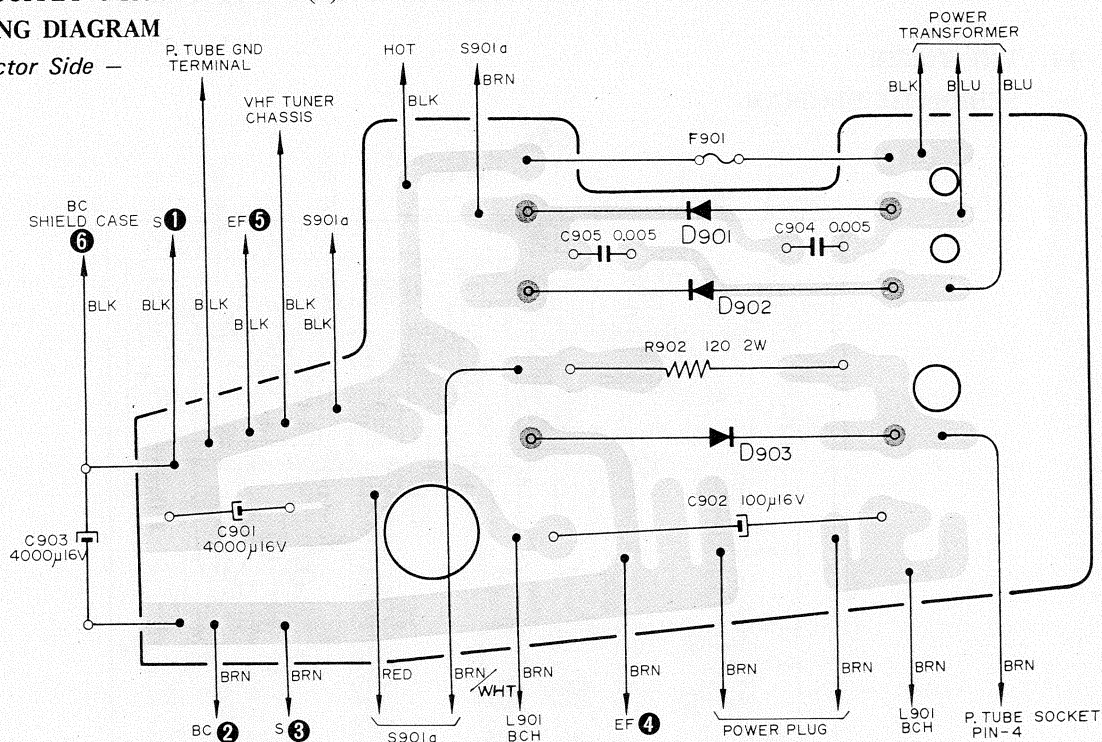
Note:

1. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
2. The components are subject to change without notice.
3. The following components are mounted on the conductor side.
(Q201, Q202, Q203, L202, L203, L208, L211, L216, R213, C207)

4-3. POWER SUPPLY CIRCUIT BOARD (P)

MOUNTING DIAGRAM

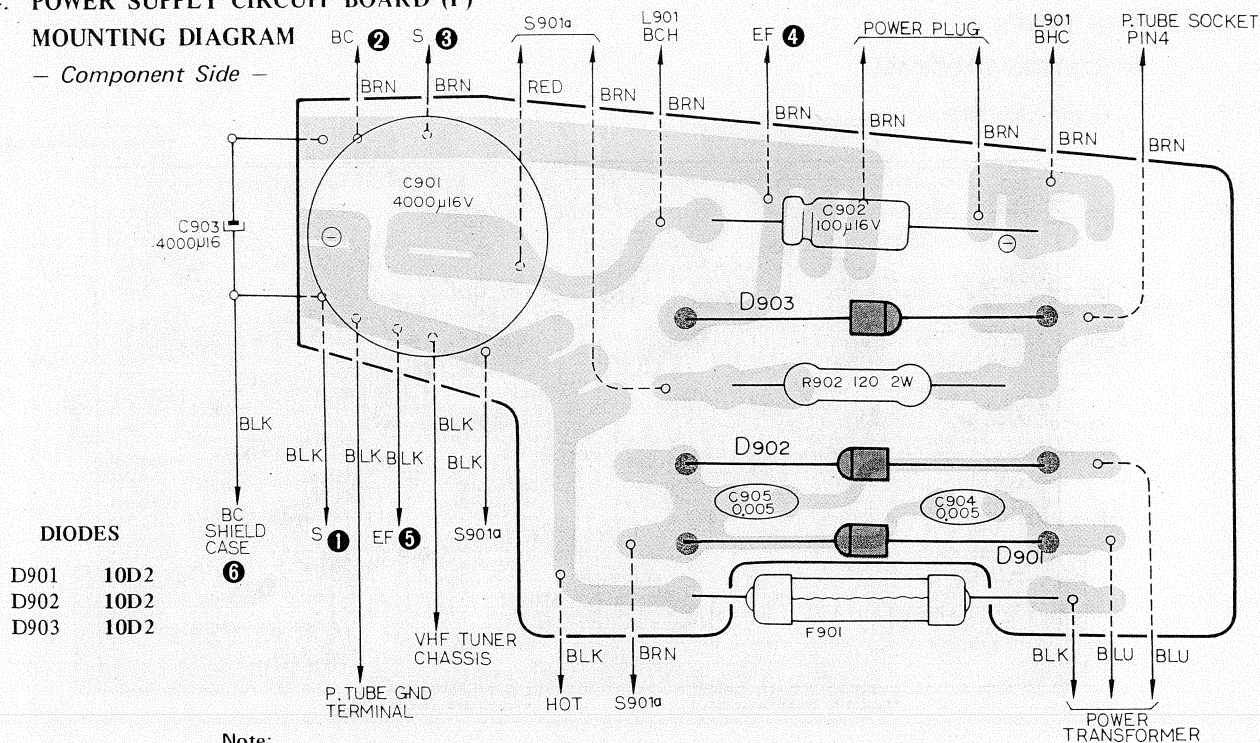
— Conductor Side —



4-4. POWER SUPPLY CIRCUIT BOARD (P)

MOUNTING DIAGRAM

— Component Side —



DIODES

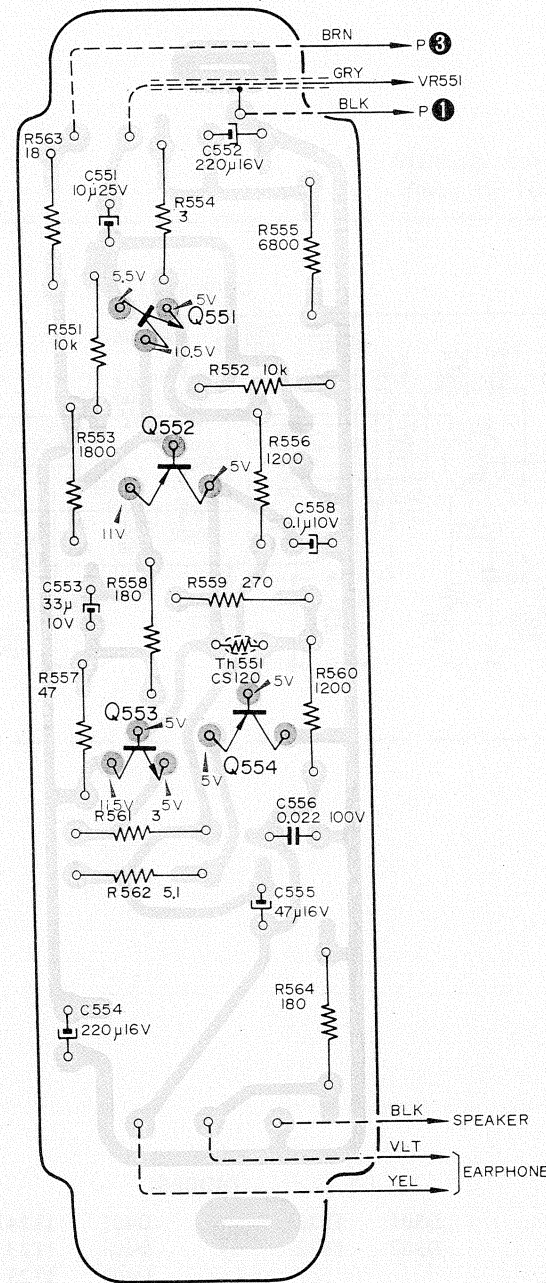
| | |
|------|------|
| D901 | 10D2 |
| D902 | 10D2 |
| D903 | 10D2 |

Note:

1. All capacitors are 50WV unless otherwise specified.
2. All resistors are 1/4W unless otherwise specified.
3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
4. The components are subject to change without notice.
5. White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.
Example: BC (2) ; Connect to the number 2 of BC board.

4-5. SOUND CIRCUIT BOARD (S) MOUNTING DIAGRAM

— Conductor Side —



TRANSISTORS

| | |
|------|---------|
| Q551 | 2SC633A |
| Q552 | 2SB383 |
| Q553 | 2SD72 |
| Q554 | 2SB382 |

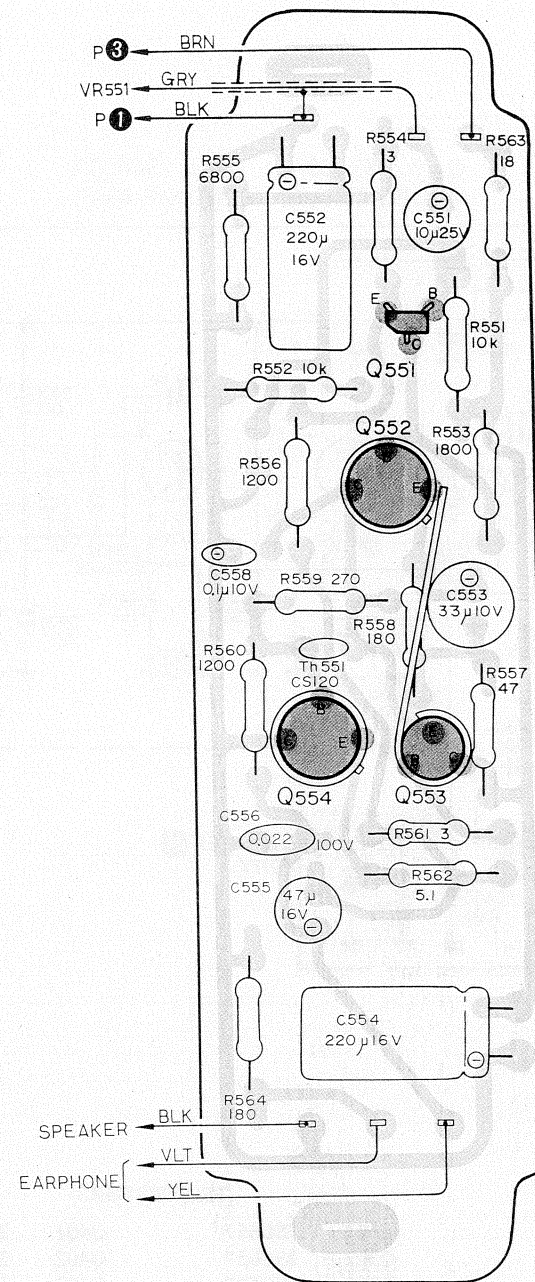
Note:

1. All capacitors are 50WV unless otherwise specified.
2. All resistors are 1/4W unless otherwise specified.
3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
4. The components are subject to change without notice.
5. White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.

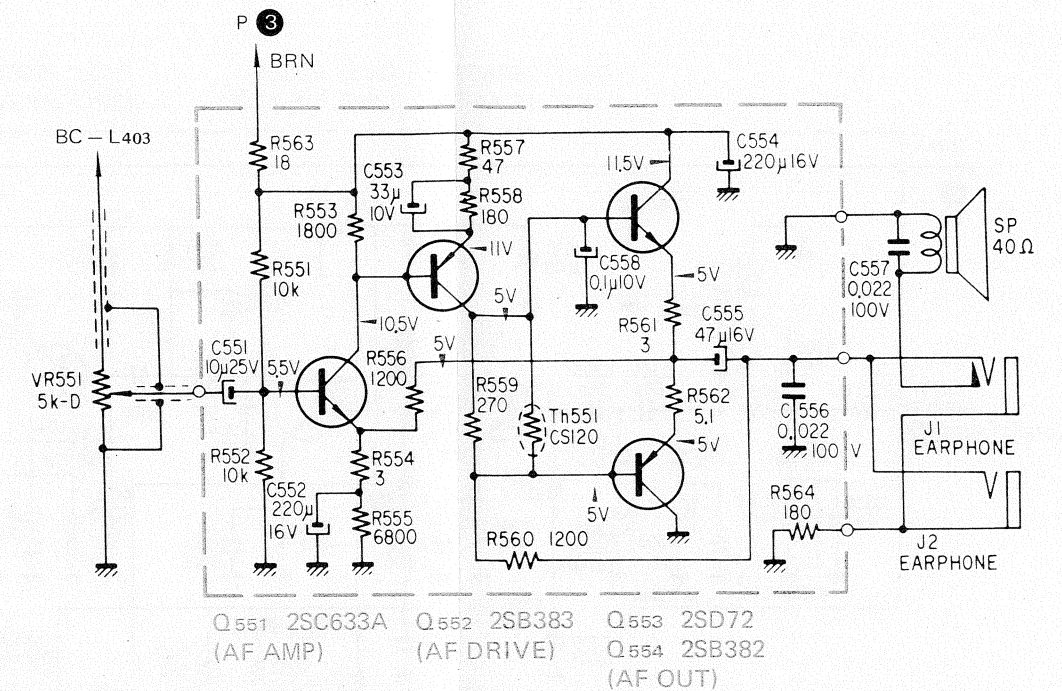
Example: P ① ; Connect to the number 1 of P board.

4-6. SOUND CIRCUIT BOARD (S) MOUNTING DIAGRAM

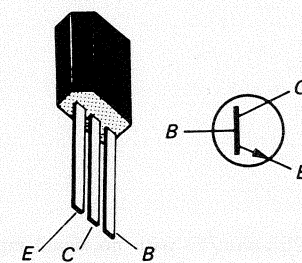
— Component Side —



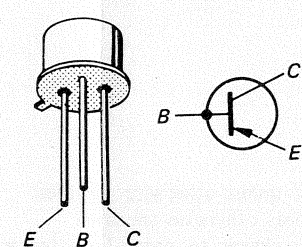
4-7. SOUND CIRCUIT BOARD (S) SCHEMATIC DIAGRAM



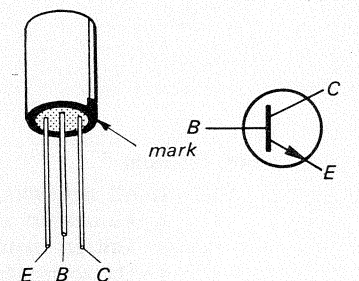
Q551 2SC633A



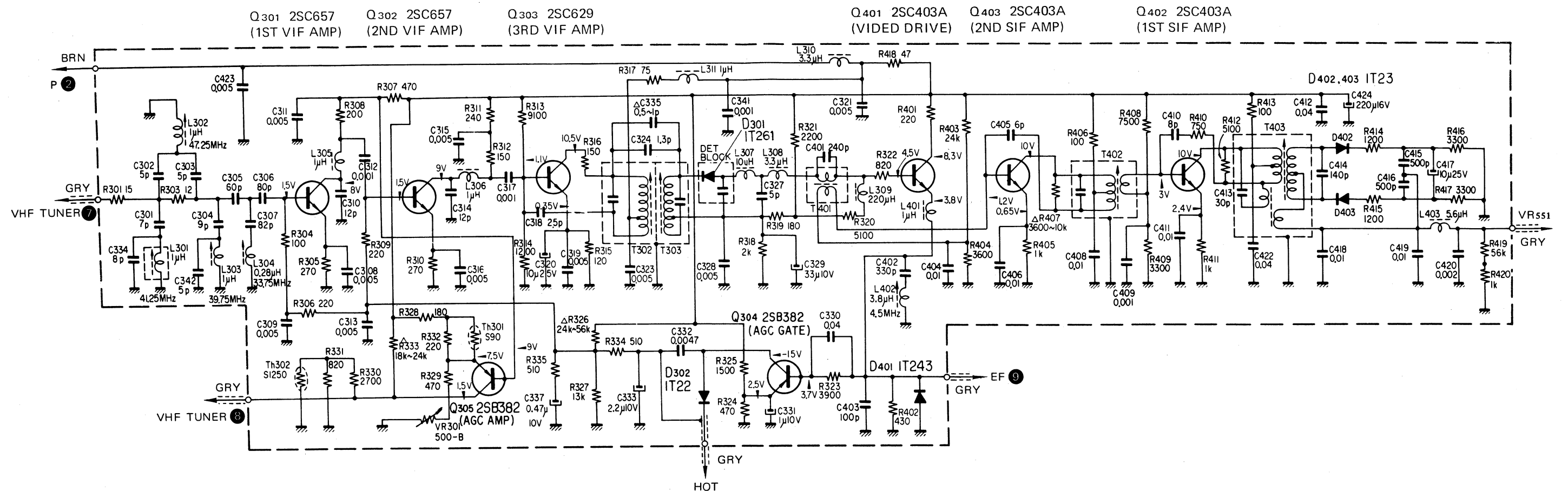
Q552 2SB383
Q554 2SB382



Q553 2SD72



4-8. SIGNAL CIRCUIT BOARD (BC)
SCHEMATIC DIAGRAM



Note:

1. All capacitors are 50WV unless otherwise specified.
2. All resistors are 1/4W unless otherwise specified.
3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
4. The components are subject to change without notice.

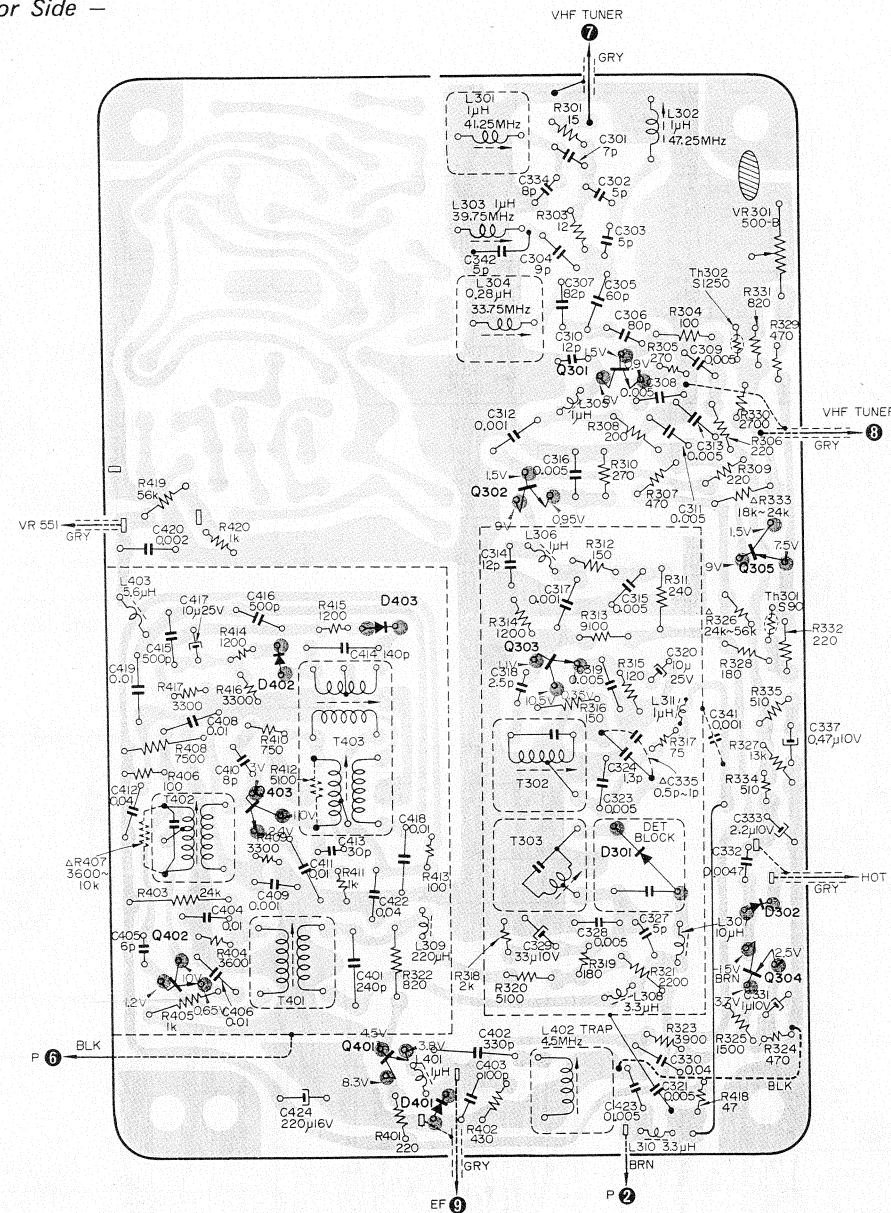
TRANSISTORS

| | | | |
|------|--------|------|---------|
| Q301 | 2SC657 | Q401 | 2SC403A |
| Q302 | 2SC657 | Q402 | 2SC403A |
| Q303 | 2SC629 | Q403 | 2SC403A |
| Q304 | 2SB382 | | |
| Q305 | 2SB382 | | |

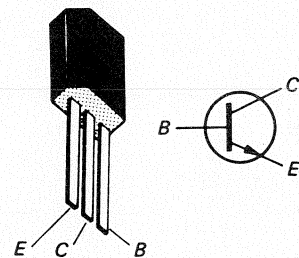
DIODES

| | | | |
|------|-------|------|-------|
| D301 | 1T261 | D401 | 1T243 |
| D302 | 1T22 | D402 | 1T23 |
| | | D403 | 1T23 |

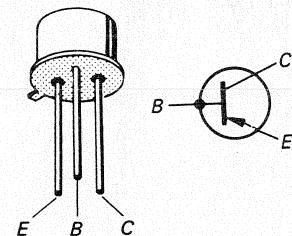
4.9. SIGNAL CIRCUIT BOARD (BC)
MOUNTING DIAGRAM
— Conductor Side —



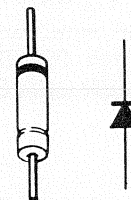
Q301, Q302, Q303
Q401, Q402, Q403



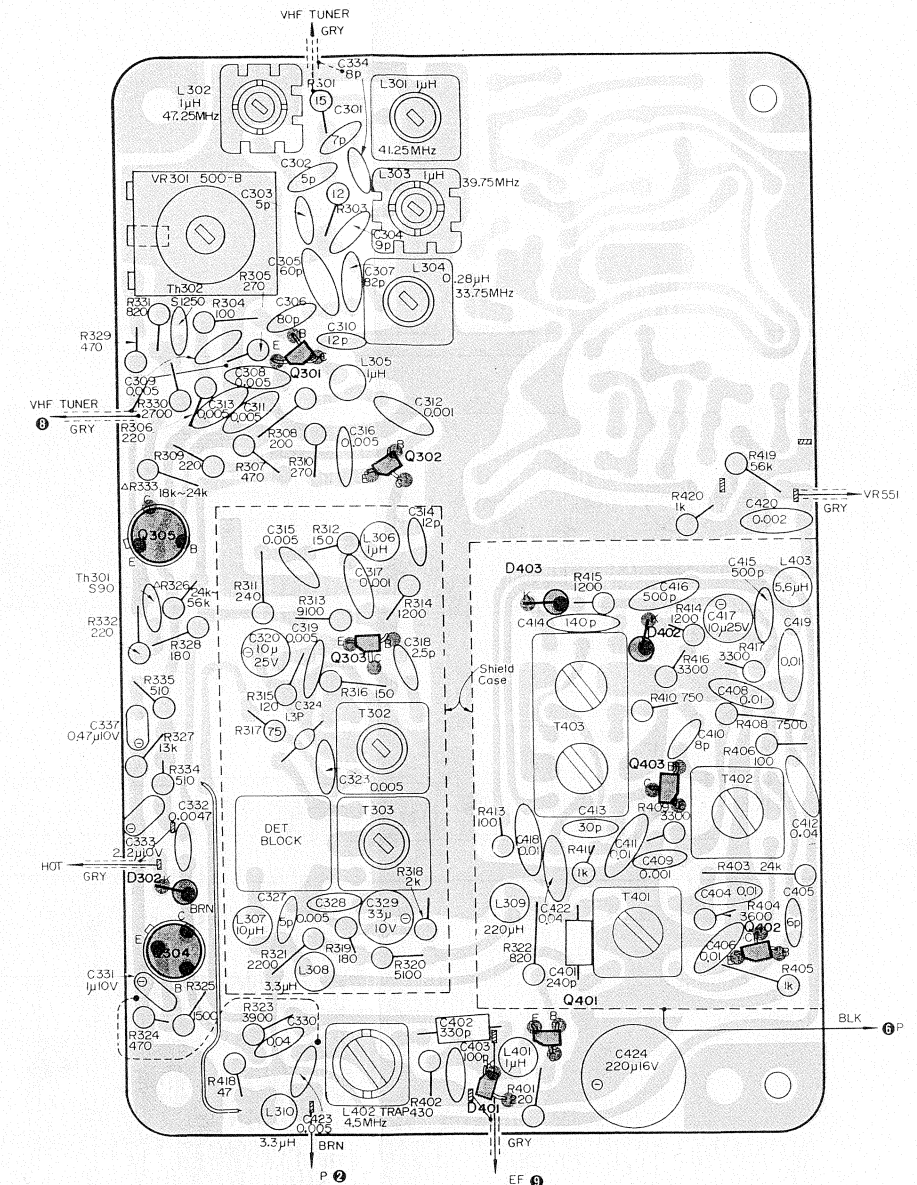
Q304, Q305



D301, D302, D401,
D402, D403



4.10. SIGNAL CIRCUIT BOARD (BC)
MOUNTING DIAGRAM
— Component Side —



TRANSISTORS

| | | | |
|------|--------|------|---------|
| Q301 | 2SC657 | Q401 | 2SC403A |
| Q302 | 2SC657 | Q402 | 2SC403A |
| Q303 | 2SC629 | Q403 | 2SC403A |
| Q304 | 2SB382 | | |
| Q305 | 2SB382 | | |

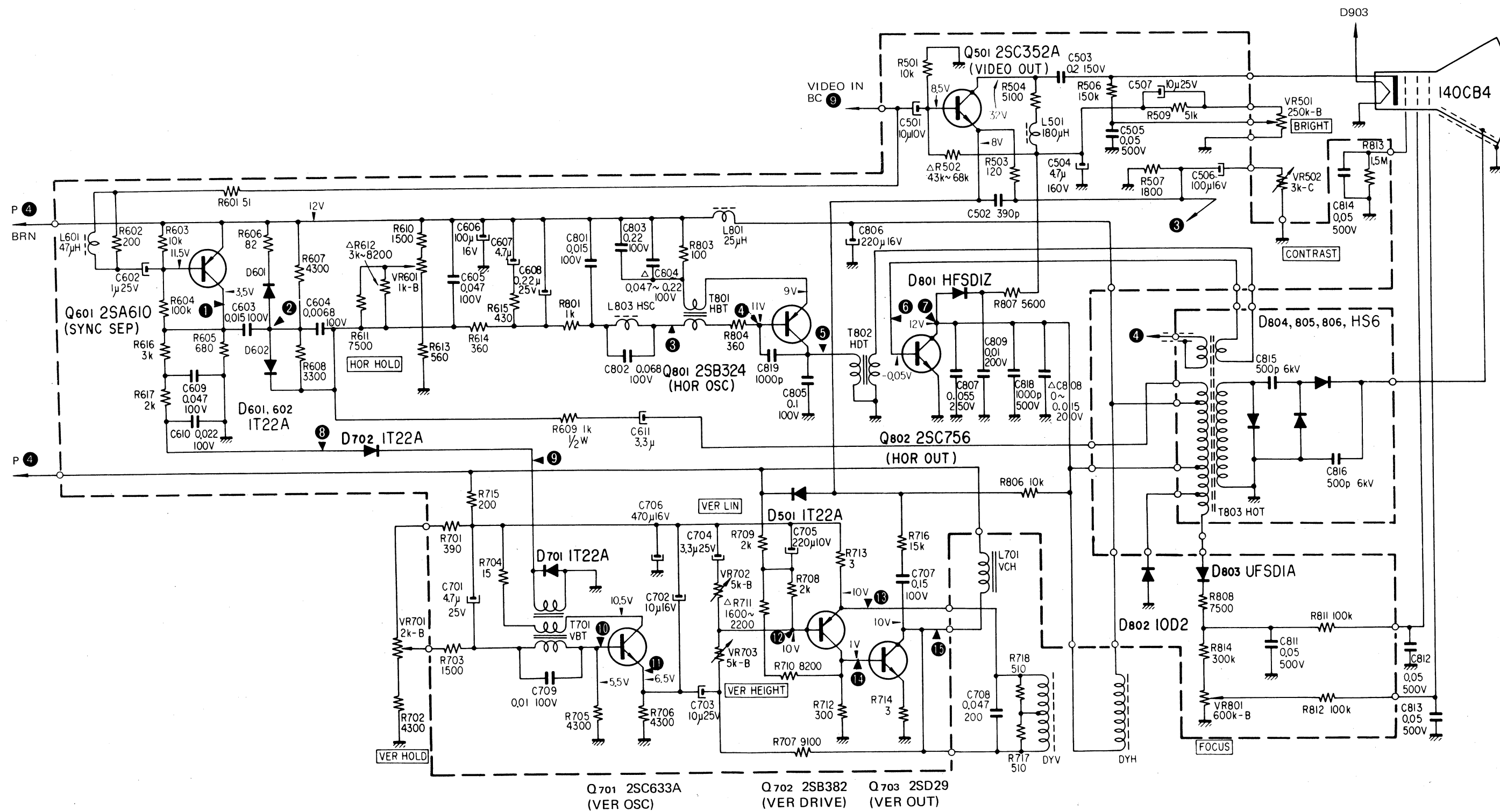
DIODES

| | | | |
|------|-------|------|-------|
| D301 | 1T261 | D401 | 1T243 |
| D302 | 1T22 | D402 | 1T23 |
| | | D403 | 1T23 |

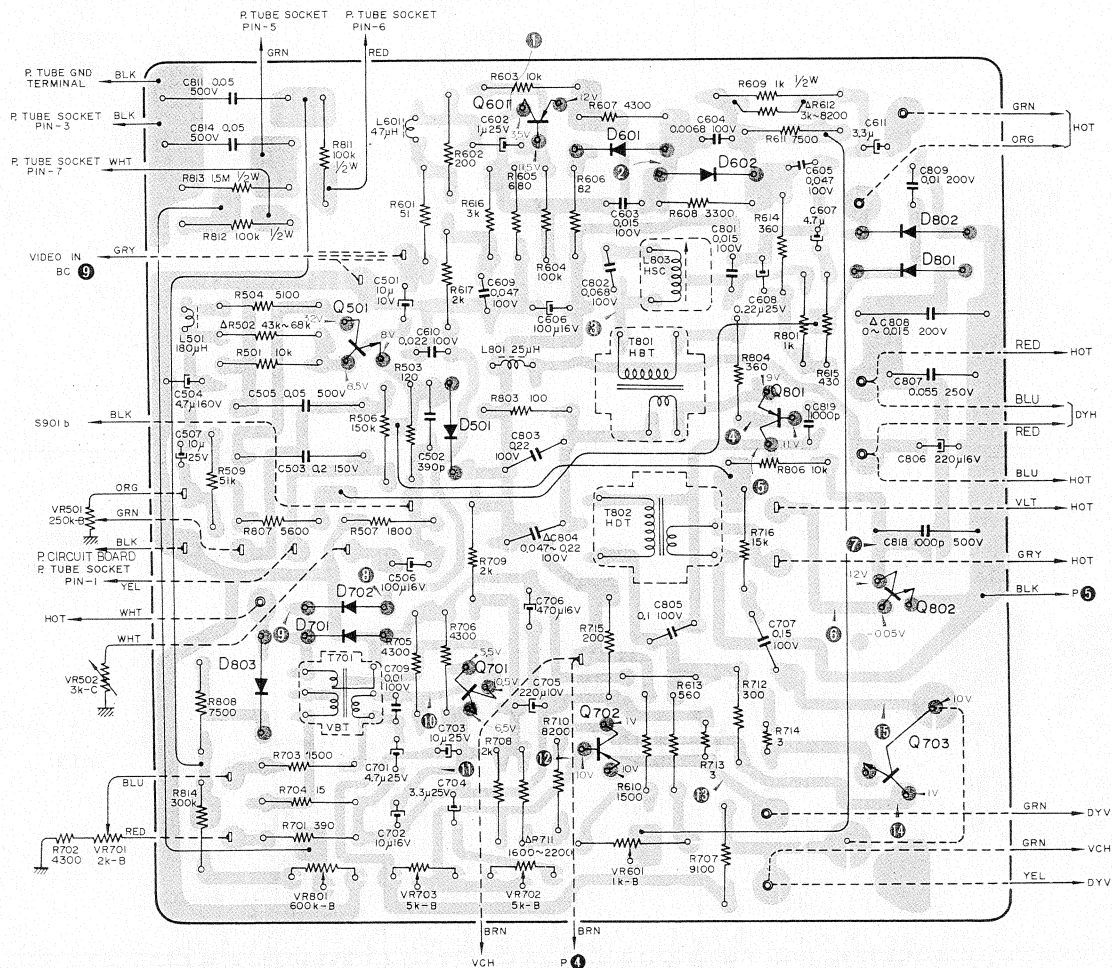
Note:

- All capacitors are 50 WV unless otherwise specified.
- All resistors are 1/4W unless otherwise specified.
- Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
- The components are subject to change without notice.
- White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.
Example: P 6 ; Connect to the number 6 of P board.
- The following components are mounted on the conductor side.
(L311, C321, C335, C341, C342, R407, R412)

4-11. DEFLECTION CIRCUIT BOARD (EF)
SCHEMATIC DIAGRAM



MOUNTING DIAGRAM

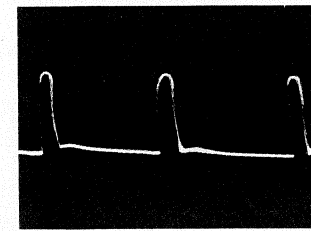
P. TUB
P. IN

| TRANSISTORS | | | | DIODES | | | |
|-------------|---------|------|--------|--------|-------|------|--------|
| Q501 | 2SC352A | Q801 | 2SB324 | D501 | 1T22A | D701 | 1T22A |
| | | Q802 | 2SC756 | | | D702 | 1T22A |
| Q601 | 2SA610 | | | D601 | 1T22A | | |
| | | | | D602 | 1T22A | D801 | HFSD1Z |
| Q701 | 2SC633A | | | | | D802 | 10D2 |
| Q702 | 2SB382 | | | | | D803 | UFSD1A |
| Q703 | 2SD29 | | | | | | |

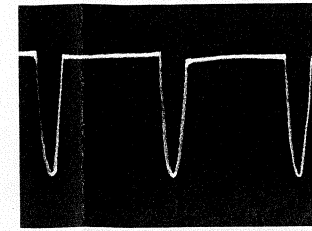
1. All

1. All capacitors are 50WV unless otherwise specified.
2. All resistors are $\frac{1}{4}W$ unless otherwise specified.
3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
4. The components are subject to change without notice.
5. White lettering numbers in the black circle indicate the lead connecting points, and alphabet marks indicate the printed circuit board.
Example: BC ⑨ ; Connect to the number 9 of BC board.
6. The red circled numbers (① ~ ⑮) are shown in waveforms numbers.

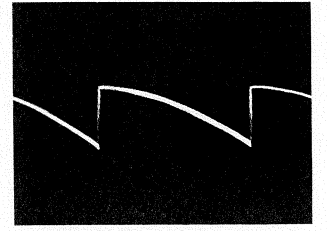
413. WAVEFORMS



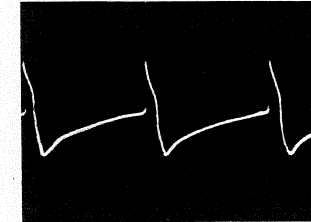
1 Collector of Q601
11 Vp-p (H.)



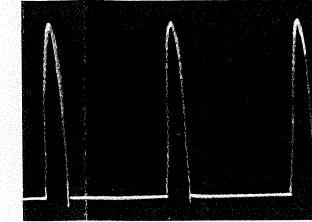
6 Base of Q802
6.4Vp-p (H.)



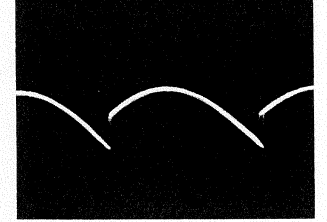
⑪ Emitter of Q701
3.2Vp-p (V.)



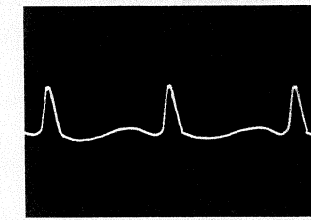
② Anode of D601
12V_{p-p} (H.)



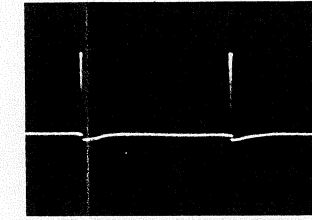
7 Collector of Q802
88Vp-p (H.)



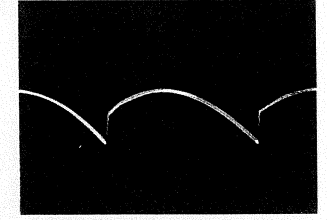
12 Base of Q702
1.4Vp-p (V.)



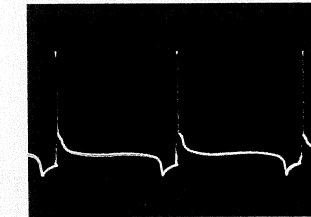
3 Right side of HSC
7.0V_{p-p} (H.)



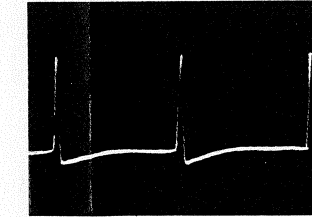
8 Anode of D702
5.5Vp-p (V.)



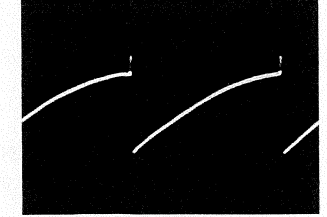
13 Emitter of Q702
1.4Vp-p (V.)



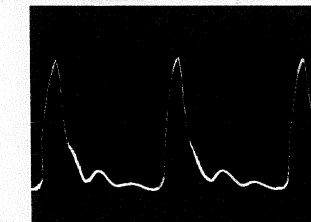
4 Base of Q801
6.4Vp-p (H.)



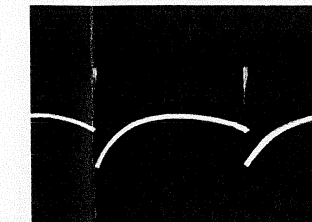
9 Cathode of D702
12Vp-p (V.)



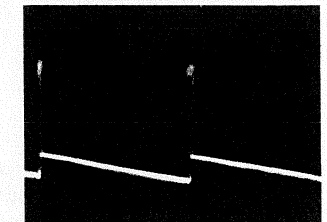
14 Collector of Q702
1.2Vp-p (V.)



5 Collector of Q801
6.8Vp-p (H.)



10 Base of Q701
5.0Vp-p (V.)

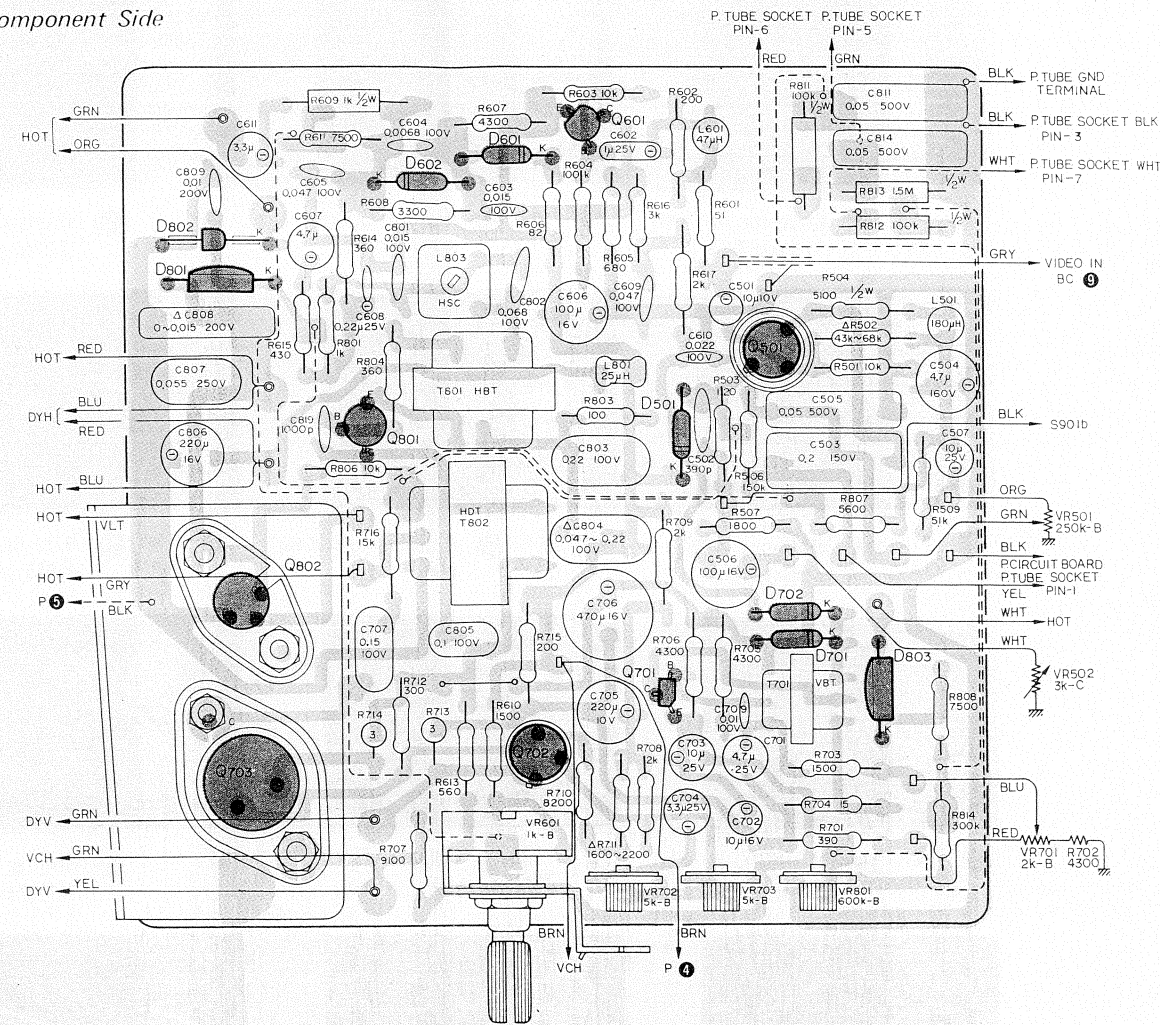


15 Collector of Q703
58 Vp-p (V.)

4-14. DEFLECTION CIRCUIT BOARD (EF)

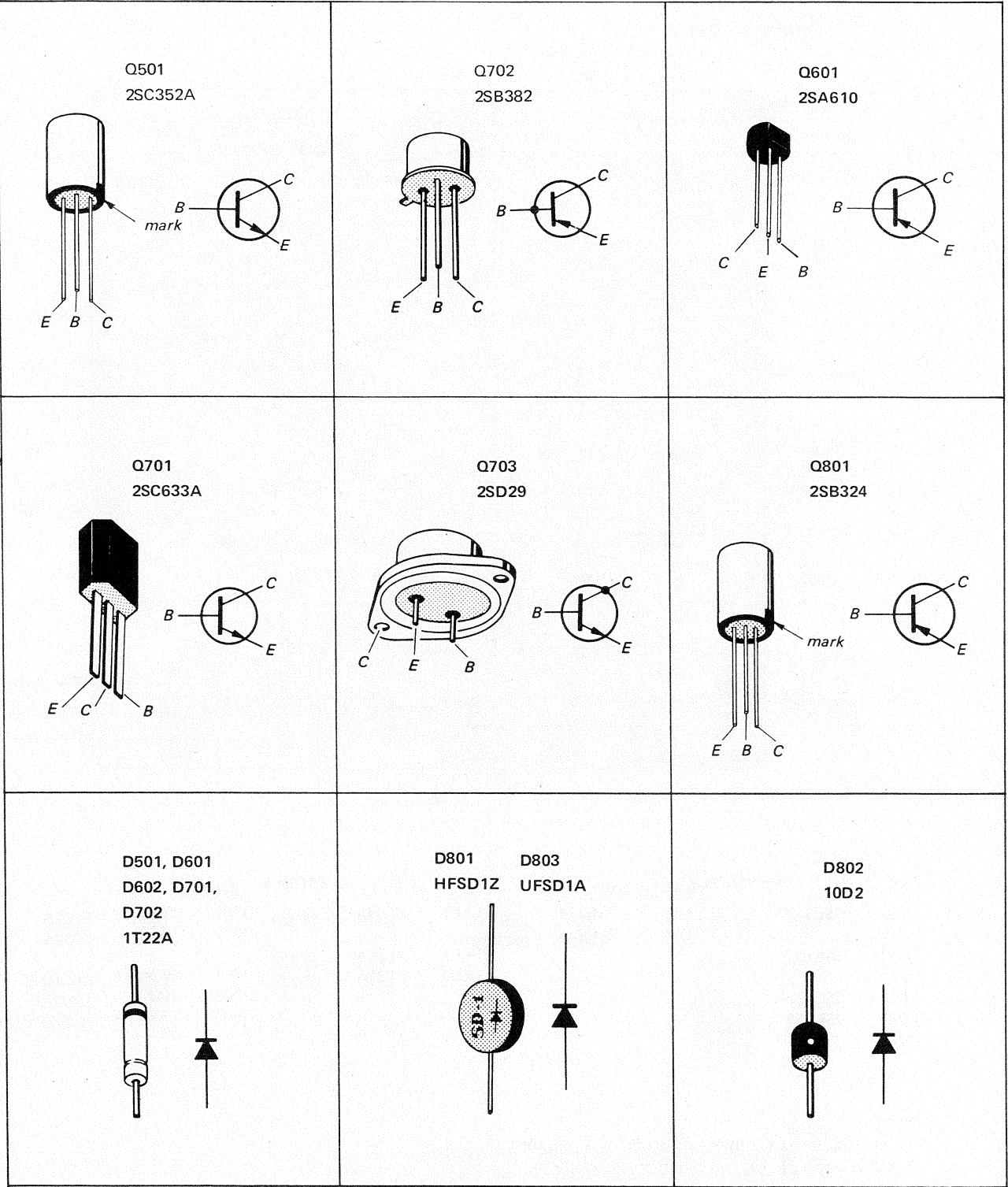
MOUNTING DIAGRAM

— Component Side

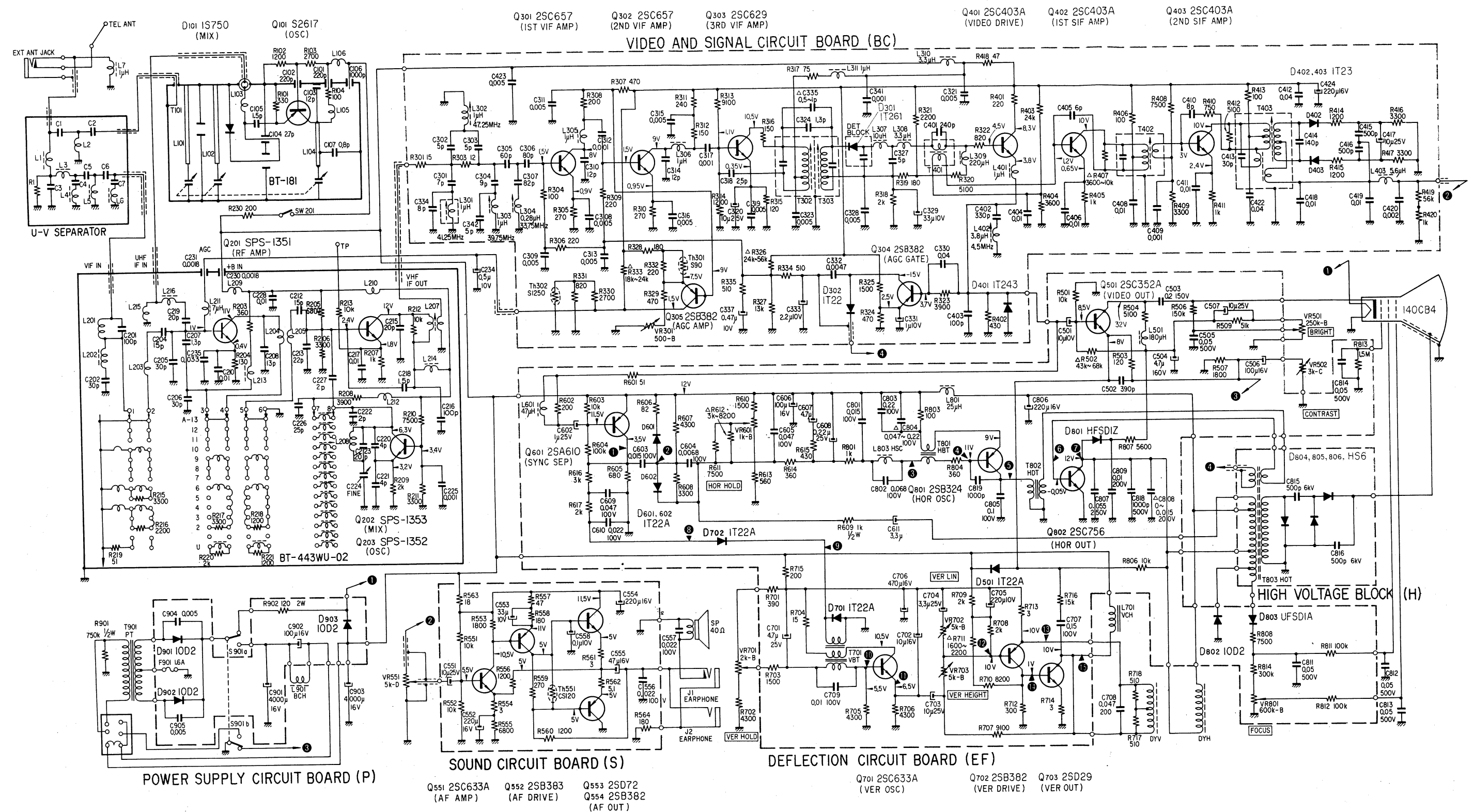


| TRANSISTORS | | | | DIODES | | | |
|-------------|---------|------|--------|--------|-------|------|--------|
| Q501 | 2SC352A | Q801 | 2SB324 | D501 | 1T22A | D701 | 1T22A |
| Q601 | 2SA610 | Q802 | 2SC756 | D601 | 1T22A | D702 | 1T22A |
| Q701 | 2SC633A | | | D602 | 1T22A | D801 | HFSD1Z |
| Q702 | 2SB382 | | | | | D802 | 10D2 |
| Q703 | 2SD29 | | | | | D803 | UFSD1A |

- Note:**
1. All capacitors are 50WV unless otherwise specified.
 2. All resistors are 1/4W unless otherwise specified.
 3. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
 4. The components are subject to change without notice.
 5. White lettering numbers in the black circle indicate the lead connection points, and alphabet marks indicate the printed circuit board.
Example: BC 9 ; Connect to the number 9 of BC board.
 6. The following component is mounted on the conductor side.
(R102)



4-15. SCHEMATIC DIAGRAM

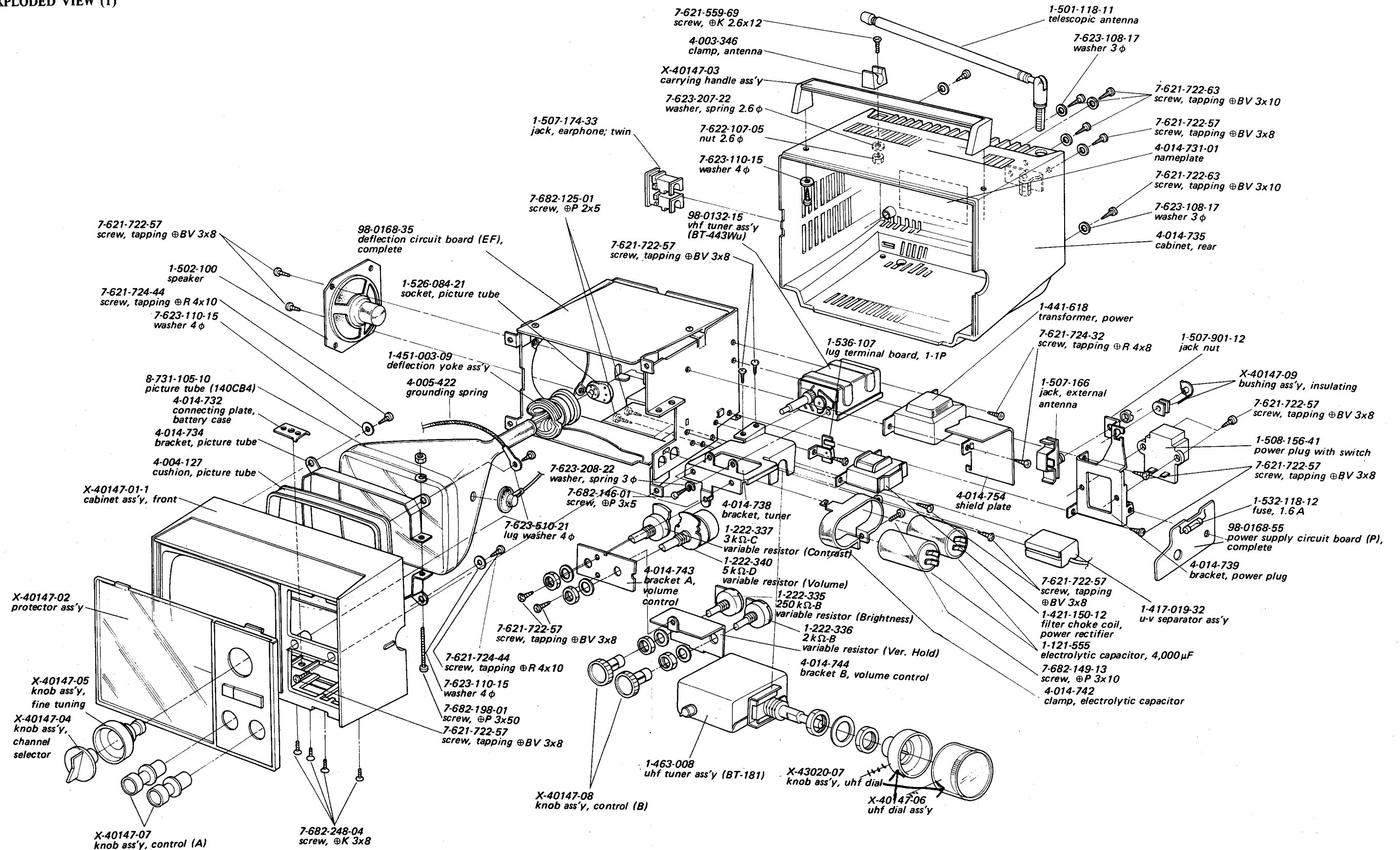


Note:

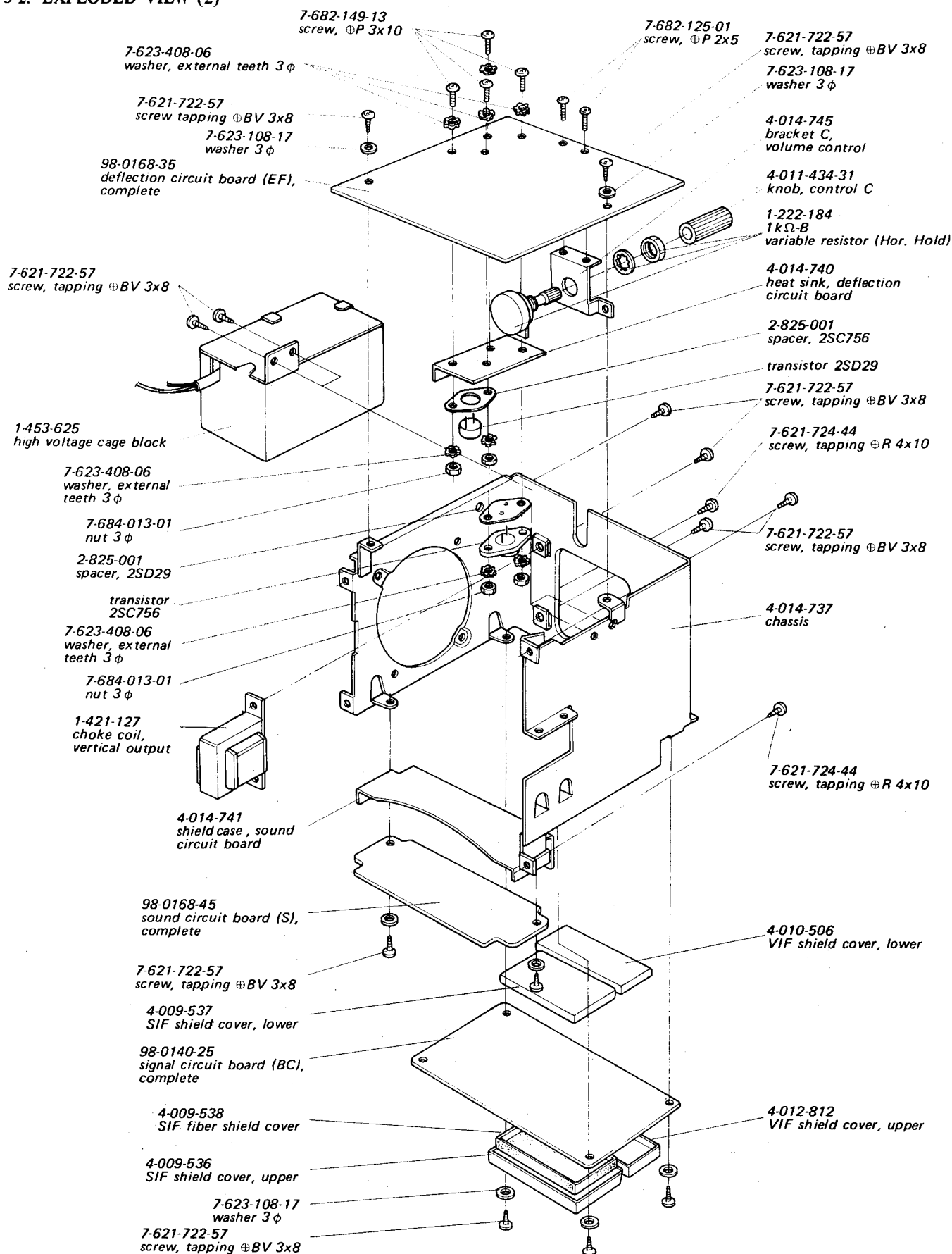
1. All capacitors are 50WV unless otherwise specified.
2. All resistors are 1/4W unless otherwise specified.
3. Resistance and capacitance values marked Δ are to be selected to yield specified operating conditions.
4. Voltages measured from chassis to point indicated with a VOM (20k ohm/V) with no signal input.
5. The components are subject to change without notice.

SECTION 5 EXPLODED VIEW AND PACKING

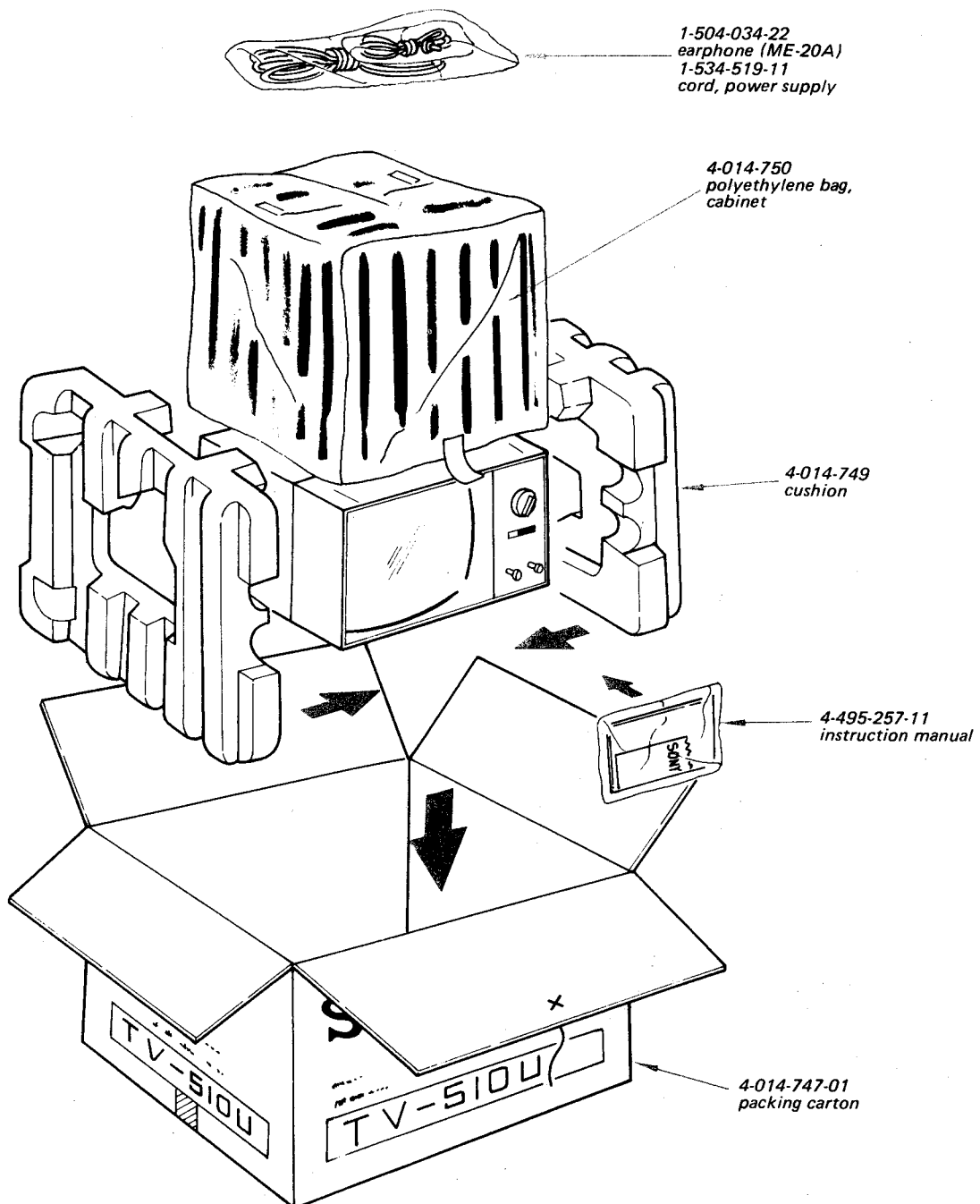
5-1. EXPLODED VIEW (1)



5-2. EXPLODED VIEW (2)



5-3. PACKING



SECTION 6

ELECTRICAL PARTS LIST

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> |
|-----------------------|-----------------|--|---------------------|-----------------|------------------------------------|
| GENERAL | | | | | |
| | 98-0132-15 | VHF tuner ass'y (BT-443Wu) | D901 | | diode 10D2 |
| | 1-463-008 | UHF tuner ass'y (BT-181) | D902 | | diode 10D2 |
| | 98-0140-25 | signal circuit board (BC), complete | D903 | | diode 10D2 |
| | 98-0168-35 | deflection circuit board (EF), complete | Th301 | 8-690-003-00 | thermistor S90 |
| | 98-0168-45 | sound circuit board (S), complete | Th302 | 8-690-006-00 | thermistor S1250 |
| | 98-0168-55 | power supply circuit board (P), complete | Th551 | 8-691-001 | thermistor CS-120 |
| SEMICONDUCTORS | | | | | |
| Q301 | | transistor 2SC657 | COILS | | |
| Q302 | | transistor 2SC657 | L7 | 1-407-178 | 1 μ H micro inductor |
| Q303 | | transistor 2SC629 | L301 | 1-409-160-31 | 41.25 MHz trap coil |
| Q304 | | transistor 2SB382 | L302 | 1-409-160-21 | 47.25 MHz trap coil |
| Q305 | | transistor 2SB382 | L303 | 1-409-160-21 | 39.75 MHz trap coil |
| Q401 | | transistor 2SC403A | L304 | 1-409-170-11 | 33.75 MHz trap coil |
| Q402 | | transistor 2SC403A | L305 | 1-407-178 | 1 μ H micro inductor |
| Q403 | | transistor 2SC403A | L306 | 1-407-178 | 1 μ H micro inductor |
| Q501 | | transistor 2SC352A | L307 | 1-407-157 | 10 μ H micro inductor |
| Q551 | | transistor 2SC633A | L308 | 1-407-184 | 3.3 μ H micro inductor |
| Q552 | | transistor 2SB383 | L309 | 1-407-173 | 220 μ H micro inductor |
| Q553 | | transistor 2SD72 | L310 | 1-407-184 | 3.3 μ H micro inductor |
| Q554 | | transistor 2SB382 | L311 | 1-407-178 | 1 μ H micro inductor |
| Q601 | | transistor 2SA610 | L401 | 1-407-178 | 1 μ H micro inductor |
| Q701 | | transistor 2SC633A | L402 | 1-409-036-11 | 4.5 MHz trap coil |
| Q702 | | transistor 2SB382 | L403 | 1-407-187 | 5.6 μ H micro inductor |
| Q703 | | transistor 2SD29 | L501 | 1-407-172 | 180 μ H micro inductor |
| Q801 | | transistor 2SB324 | L601 | 1-407-165 | 47 μ H micro inductor |
| Q802 | | transistor 2SC756 | L701 | 1-421-127 | choke coil, vertical output |
| D301 | | diode IT261 | L801 | 1-421-013-11 | 25 μ H filter inductor |
| D302 | | diode IT22 | L803 | 1-413-012-12 | coil, horizontal stabilizing |
| D401 | | diode IT243 | L901 | 1-421-150-12 | filter choke coil, power rectifier |
| D402 | | diode IT23 | TRANSFORMERS | | |
| D403 | | diode IT23 | T302 | 1-403-701 | VIFT |
| D501 | | diode IT22A | T303 | 1-403-702 | VIFT |
| D601 | | diode IT22A | T401 | 1-403-348 | SIFT |
| D602 | | diode IT22A | T402 | 1-403-349 | SIFT |
| D701 | | diode IT22A | T403 | 1-403-313 | SIFT |
| D702 | | diode IT22A | T701 | 1-435-008-12 | transformer, vertical osc; VBT |
| D801 | | diode HFSD1Z | | 1-435-008-11 | transformer, vertical osc; VBT |
| D802 | | diode 10D2 | T801 | 1-435-016-11 | transformer, horizontal osc; HBT |
| D803 | | diode UFSD1A | T802 | 1-437-004-11 | transformer, horizontal drive; HDT |
| | | | T803 | 1-453-625 | high voltage cage block; HOT |
| | | | T901 | 1-441-618 | transformer, power; PT |

| Ref. No. | Part No. | Description | | | Ref. No. | Part No. | Description | | |
|------------|--------------|-------------|----------------------------|----------------------------|--------------|--------------|-------------|-------------------|--------------------------|
| CAPACITORS | | | | | C416 | 1-101-423 | 500pF | ±20% | 50WV ceramic |
| C301 | 1-101-957 | 7pF | ±0.5pF | 50WV ceramic | C417 | 1-121-398 | 10μF | ±100% | 25WV electrolytic |
| C302 | 1-101-969 | 5pF | ±0.5% | 50WV ceramic | C418 | 1-101-118 | 0.01μF | ±20% | 50WV ceramic |
| C303 | 1-101-969 | 5pF | ±0.5% | 50WV ceramic | C419 | 1-101-118 | 0.01μF | ±20% | 50WV ceramic |
| C304 | 1-101-832 | 9pF | ±0.2pF | 50WV ceramic | C420 | 1-101-002 | 0.002μF | ±100% | 50WV ceramic |
| C305 | 1-101-583 | 60pF | ±5% | 50WV ceramic | C422 | 1-101-006 | 0.04μF | ±100% | 50WV ceramic |
| C306 | 1-101-057 | 80pF | ±5% | 50WV ceramic | C423 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic |
| C307 | 1-101-892 | 82pF | ±5% | 50WV ceramic | C424 | 1-121-358 | 220μF | ±100% | 16WV electrolytic |
| C308 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C501 | 1-121-469 | 10μF | ±100% | 10WV electrolytic |
| C309 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C502 | 1-102-834 | 390pF | ±10% | 50WV ceramic |
| C310 | 1-101-961 | 12pF | ±5% | 50WV ceramic | C503 | 1-113-124 | 0.2μF | ±10% | 150WV paper |
| C311 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C504 | 1-121-246 | 4.7μF | ±100% | 160WV electrolytic |
| C312 | 1-101-455 | 0.001μF | ±20% | 50WV ceramic | C505 | 1-113-122 | 0.05μF | ±20% | 500WV paper |
| C313 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C506 | 1-121-415 | 100μF | ±100% | 16WV electrolytic |
| C314 | 1-101-961 | 12pF | ±5% | 50WV ceramic | C507 | 1-121-398 | 10μF | ±100% | 25WV electrolytic |
| C315 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C551 | 1-121-398 | 10μF | ±100% | 25WV electrolytic |
| C316 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C552 | 1-121-421 | 220μF | ±100% | 16WV electrolytic |
| C317 | 1-101-455 | 0.001μF | ±20% | 50WV ceramic | C553 | 1-121-402 | 33μF | ±100% | 10WV electrolytic |
| C318 | 1-101-940 | 2.5pF | ±10% | 50WV ceramic | C554 | 1-121-421 | 220μF | ±100% | 16WV electrolytic |
| C319 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C555 | 1-121-409 | 47μF | ±100% | 16WV electrolytic |
| C320 | 1-121-398 | 10μF | ±100% | 25WV electrolytic | C556 | 1-105-717-12 | 0.022μF | ±10% | 100WV mylar |
| C321 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C557 | 1-105-717-12 | 0.022μF | ±10% | 100WV mylar |
| C323 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C558 | 1-127-019 | 0.1μF | ±20% | 10WV electrolytic (alox) |
| C324 | 1-101-587 | 1.3pF | ±0.2pF | 50WV ceramic | C602 | 1-127-094 | 1μF | ±20% | 25WV electrolytic (alox) |
| C327 | 1-101-955 | 5pF | ±0.5pF | 50WV ceramic | C603 | 1-105-715-12 | 0.015μF | ±10% | 100WV mylar |
| C328 | 1-101-003 | 0.005μF | ±100% | 50WV ceramic | C604 | 1-105-711-12 | 0.0068μF | ±10% | 100WV mylar |
| C329 | 1-121-402 | 33μF | ±100% | 10WV electrolytic | C605 | 1-105-721-12 | 0.047μF | ±10% | 100WV mylar |
| C330 | 1-101-006 | 0.04μF | ±100% | 50WV ceramic | C606 | 1-121-415 | 100μF | ±100% | 16WV electrolytic |
| C331 | 1-127-023 | 1μF ±20% | 10WV aluminum electrolytic | C607 | 1-121-396 | 4.7μF | ±100% | 50WV electrolytic | |
| C332 | 1-105-669-12 | 0.0047μF | ±10% | 50WV mylar | C608 | 1-127-091 | 0.22μF | ±20% | 25WV electrolytic (alox) |
| C333 | 1-127-024 | 2.2μF ±20% | 10WV aluminum electrolytic | C609 | 1-105-721-12 | 0.047μF | ±10% | 100WV mylar | |
| C334 | 1-101-958 | 8pF | ±0.5pF | 50WV ceramic | C610 | 1-105-717-12 | 0.022μF | ±10% | 100WV mylar |
| * C335 | 1-101-837 | 0.5pF | ±0.2pF | 50WV ceramic | C611 | 1-121-393 | 3.3μF | ±100% | 50WV electrolytic |
| | 1-101-586 | 0.8pF | ±0.2pF | 50WV ceramic | C701 | 1-127-232 | 4.7μF | ±20% | 25WV electrolytic (alox) |
| | 1-101-163 | 1pF | ±20% | 50WV ceramic | C702 | 1-131-116 | 10μF | ±20% | 16WV electrolytic |
| | | | | | C703 | 1-121-398 | 10μF | ±100% | 50WV electrolytic |
| C337 | 1-127-022 | 0.47μF | ±20% | 10WV aluminum electrolytic | C704 | 1-127-231 | 3.3μF | ±20% | 25WV electrolytic (alox) |
| C341 | 1-101-455 | 0.001μF | ±20% | 50WV ceramic | C705 | 1-121-420 | 220μF | ±100% | 10WV electrolytic |
| C342 | 1-101-969 | 5pF | ±0.5pF | 50WV ceramic | C706 | 1-121-426 | 470μF | ±100% | 16WV electrolytic |
| C401 | 1-103-610 | 240pF | ±5% | 50WV polystyrene | C707 | 1-105-727-12 | 0.15μF | ±10% | 100WV mylar |
| C402 | 1-103-663 | 330pF | ±10% | 50WV polystyrene | C709 | 1-105-713-12 | 0.01μF | ±10% | 100WV mylar |
| C403 | 1-101-896 | 100pF | ±5% | 50WV ceramic | C801 | 1-105-715-12 | 0.015μF | ±10% | 100WV mylar |
| C404 | 1-101-004 | 0.01μF | ±100% | 50WV ceramic | C802 | 1-105-723-12 | 0.068μF | ±10% | 100WV mylar |
| C405 | 1-101-956 | 6pF | ±0.5pF | 50WV ceramic | C803 | 1-105-729-12 | 0.22μF | ±10% | 100WV mylar |
| C406 | 1-101-004 | 0.01μF | ±100% | 50WV ceramic | * C804 | 1-105-721-12 | 0.047μF | ±10% | 100WV mylar |
| C408 | 1-101-004 | 0.01μF | ±100% | 50WV ceramic | | 1-105-725-12 | 0.1μF | ±10% | 100WV mylar |
| C409 | 1-101-455 | 0.001μF | ±20% | 50WV ceramic | | 1-105-727-12 | 0.15μF | ±10% | 100WV mylar |
| C410 | 1-101-958 | 8pF | ±5pF | 50WV ceramic | | 1-105-729-12 | 0.22μF | ±10% | 100WV mylar |
| C411 | 1-101-004 | 0.01μF | ±100% | 50WV ceramic | C805 | 1-105-725-12 | 0.1μF | ±10% | 100WV mylar |
| C412 | 1-101-006 | 0.04μF | ±100% | 50WV ceramic | | | | | |
| C413 | 1-101-115 | 30pF | ±5% | 50WV ceramic | | | | | |
| C414 | 1-101-571 | 140pF | ±5% | 50WV ceramic | | | | | |
| C415 | 1-101-423 | 500pF | ±20% | 50WV ceramic | | | | | |

※ : to be selected

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | | | | <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | | | |
|------------------|-----------------|------------------------------|-------------|--------|--------------|-----------------|-----------------|--------------------|------------|--------------------|--------|
| C806 | 1-121-421 | 220 μ F | $\pm 100\%$ | 16WV | electrolytic | R328 | 1-248-655 | 180 Ω | $\pm 10\%$ | ERD14V | carbon |
| C807 | 1-105-292-12 | 0.055 μ F | $\pm 10\%$ | 250WV | mylar | R329 | 1-248-665 | 470 Ω | $\pm 10\%$ | ERD14V | carbon |
| C808 | 1-105-274-12 | 0.01 μ F + 0.005 μ F | | 200WV | mylar | R330 | 1-248-683 | 2,700 Ω | $\pm 5\%$ | ERD14V | carbon |
| C809 | 1-105-753-12 | 0.01 μ F | $\pm 10\%$ | 100WV | mylar | R331 | 1-248-671 | 820 Ω | $\pm 10\%$ | ERD14V | carbon |
| C811 | 1-113-122 | 0.05 μ F | $\pm 20\%$ | 500WV | paper | R332 | 1-248-657 | 220 Ω | $\pm 5\%$ | ERD14V | carbon |
| C812 | 1-113-122 | 0.05 μ F | $\pm 20\%$ | 500WV | paper | R333 | 1-248-703 | 18k Ω | $\pm 5\%$ | ERD14V | carbon |
| C813 | 1-113-122 | 0.05 μ F | $\pm 20\%$ | 500WV | paper | | 1-248-704 | 20k Ω | $\pm 5\%$ | ERD14V | carbon |
| C814 | 1-113-122 | 0.05 μ F | $\pm 20\%$ | 500WV | paper | | 1-248-705 | 22k Ω | $\pm 5\%$ | ERD14V | carbon |
| C818 | 1-101-845 | 1,000pF | $\pm 100\%$ | 500WV | ceramic | | 1-248-706 | 24k Ω | $\pm 5\%$ | ERD14V | carbon |
| C819 | 1-101-455 | 1,000pF | $\pm 20\%$ | 50WV | ceramic | R334 | 1-248-666 | 510 Ω | $\pm 10\%$ | ERD14V | carbon |
| C901 | 1-121-555 | 4,000 μ F | $\pm 100\%$ | 15WV | electrolytic | R335 | 1-248-666 | 510 Ω | $\pm 10\%$ | ERD14V | carbon |
| C902 | 1-119-106 | 100 μ F | $\pm 20\%$ | 16WV | electrolytic | R401 | 1-248-657 | 220 Ω | $\pm 5\%$ | ERD14V | carbon |
| C903 | 1-121-555 | 4,000 μ F | $\pm 100\%$ | 15WV | electrolytic | R402 | 1-248-664 | 430 Ω | $\pm 5\%$ | ERD14V | carbon |
| C904 | 1-101-003 | 0.005 μ F | $\pm 100\%$ | 50WV | ceramic | R403 | 1-248-706 | 24k Ω | $\pm 10\%$ | ERD14V | carbon |
| C905 | 1-101-003 | 0.005 μ F | $\pm 100\%$ | 50WV | ceramic | R404 | 1-248-686 | 3,600 Ω | $\pm 10\%$ | ERD14V | carbon |
| RESISTORS | | | | | | R405 | 1-248-673 | 1k Ω | $\pm 10\%$ | ERD14V | carbon |
| R301 | 1-248-629 | 15 Ω | $\pm 10\%$ | ERD14V | carbon | R406 | 1-248-649 | 100 Ω | $\pm 10\%$ | ERD14V | carbon |
| R303 | 1-248-627 | 12 Ω | $\pm 5\%$ | ERD14V | carbon | R407 | 1-203-892 | 3,600 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R304 | 1-248-649 | 100 Ω | $\pm 10\%$ | ERD14V | carbon | | 1-203-497 | 3,900 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R305 | 1-248-659 | 270 Ω | $\pm 10\%$ | ERD14V | carbon | | 1-203-185 | 4,700 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R306 | 1-248-657 | 220 Ω | $\pm 10\%$ | ERD14V | carbon | | 1-203-186 | 5,600 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R307 | 1-248-665 | 470 Ω | $\pm 10\%$ | ERD14V | carbon | | 1-204-345 | 5,100 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R308 | 1-248-656 | 200 Ω | $\pm 10\%$ | ERD14V | carbon | | 1-203-187 | 6,800 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R309 | 1-248-657 | 220 Ω | $\pm 10\%$ | ERD14V | carbon | | 1-203-189 | 8,200 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R310 | 1-248-659 | 270 Ω | $\pm 10\%$ | ERD14V | carbon | R408 | 1-248-694 | 7,500 Ω | $\pm 10\%$ | ERD14V | carbon |
| R311 | 1-248-658 | 240 Ω | $\pm 10\%$ | ERD14V | carbon | R409 | 1-248-685 | 3,300 Ω | $\pm 10\%$ | ERD14V | carbon |
| R312 | 1-248-653 | 150 Ω | $\pm 10\%$ | ERD14V | carbon | R410 | 1-248-670 | 750 Ω | $\pm 10\%$ | ERD14V | carbon |
| R313 | 1-248-696 | 9,100 Ω | $\pm 10\%$ | ERD14V | carbon | R411 | 1-248-673 | 1k Ω | $\pm 10\%$ | ERD14V | carbon |
| R314 | 1-248-675 | 1,200 Ω | $\pm 10\%$ | ERD14V | carbon | R412 | 1-204-345 | 5,100 Ω | $\pm 5\%$ | RD $\frac{1}{4}$ L | carbon |
| R315 | 1-248-651 | 120 Ω | $\pm 10\%$ | ERD14V | carbon | R413 | 1-248-649 | 100 Ω | $\pm 10\%$ | ERD14V | carbon |
| R316 | 1-246-653 | 150 Ω | $\pm 10\%$ | ERD14T | carbon | R414 | 1-248-675 | 1,200 Ω | $\pm 5\%$ | ERD14V | carbon |
| R317 | 1-248-646 | 75 Ω | $\pm 10\%$ | ERD14V | carbon | R415 | 1-248-675 | 1,200 Ω | $\pm 5\%$ | ERD14V | carbon |
| R318 | 1-248-680 | 2k Ω | $\pm 10\%$ | ERD14V | carbon | R416 | 1-248-685 | 3,300 Ω | $\pm 5\%$ | ERD14V | carbon |
| R319 | 1-248-655 | 180 Ω | $\pm 10\%$ | ERD14V | carbon | R417 | 1-248-685 | 3,300 Ω | $\pm 5\%$ | ERD14V | carbon |
| R320 | 1-248-690 | 5,100 Ω | $\pm 10\%$ | ERD14V | carbon | R418 | 1-248-641 | 47 Ω | $\pm 10\%$ | ERD14V | carbon |
| R321 | 1-248-681 | 2,200 Ω | $\pm 10\%$ | ERD14V | carbon | R419 | 1-248-715 | 56k Ω | $\pm 10\%$ | ERD14V | carbon |
| R322 | 1-248-671 | 820 Ω | $\pm 10\%$ | ERD14V | carbon | R420 | 1-248-673 | 1k Ω | $\pm 10\%$ | ERD14V | carbon |
| R323 | 1-248-687 | 3,900 Ω | $\pm 10\%$ | ERD14V | carbon | R501 | 1-246-697 | 10k Ω | $\pm 5\%$ | ERD14T | carbon |
| R324 | 1-248-665 | 470 Ω | $\pm 5\%$ | ERD14V | carbon | R502 | 1-246-712 | 43k Ω | $\pm 5\%$ | ERD14T | carbon |
| R325 | 1-246-677 | 1,500 Ω | $\pm 10\%$ | ERD14T | carbon | | 1-246-713 | 47k Ω | $\pm 5\%$ | ERD14T | carbon |
| R326 | 1-248-706 | 24k Ω | $\pm 5\%$ | ERD14V | carbon | | 1-246-714 | 51k Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-707 | 27k Ω | $\pm 5\%$ | ERD14V | carbon | | 1-246-715 | 56k Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-708 | 30k Ω | $\pm 5\%$ | ERD14V | carbon | | 1-246-716 | 62k Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-710 | 36k Ω | $\pm 5\%$ | ERD14V | carbon | | 1-246-717 | 68k Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-711 | 39k Ω | $\pm 5\%$ | ERD14V | carbon | R503 | 1-246-651 | 120 Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-712 | 43k Ω | $\pm 5\%$ | ERD14V | carbon | R504 | 1-246-690 | 5,100 Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-713 | 47k Ω | $\pm 5\%$ | ERD14V | carbon | R506 | 1-246-725 | 150k Ω | $\pm 5\%$ | ERD14T | carbon |
| R327 | 1-248-714 | 51k Ω | $\pm 5\%$ | ERD14V | carbon | R507 | 1-246-679 | 1,800 Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-715 | 56k Ω | $\pm 5\%$ | ERD14V | carbon | R509 | 1-246-714 | 51k Ω | $\pm 5\%$ | ERD14T | carbon |
| | 1-248-700 | 13k Ω | $\pm 5\%$ | ERD14V | carbon | R551 | 1-246-697 | 10k Ω | $\pm 5\%$ | ERD14T | carbon |

× : to be selected

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | | | | <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | | | |
|-----------------|-----------------|--------------------|-----|--------|------------|-----------------|-----------------|--------------------|------|--------------------|------------------|
| R552 | 1-246-697 | 10kΩ | ±5% | ERD14T | carbon | R804 | 1-246-662 | 360Ω | ±5% | ERD14T | carbon |
| R553 | 1-246-679 | 1,800Ω | ±5% | ERD14T | carbon | R806 | 1-246-697 | 10kΩ | ±5% | ERD14T | carbon |
| R554 | 1-246-612 | 3Ω | ±5% | ERD14T | carbon | R807 | 1-246-691 | 5,600Ω | ±5% | ERD14T | carbon |
| R555 | 1-246-673 | 6,800Ω | ±5% | ERD14T | carbon | R808 | 1-246-694 | 7,500Ω | ±5% | ERD14T | carbon |
| R556 | 1-246-675 | 1,200Ω | ±5% | ERD14T | carbon | R811 | 1-202-621 | 100kΩ | ±10% | RC½ | composition |
| R557 | 1-246-641 | 47Ω | ±5% | ERD14T | carbon | R812 | 1-202-621 | 100kΩ | ±10% | RC½ | composition |
| R558 | 1-246-655 | 180Ω | ±5% | ERD14T | carbon | R813 | 1-202-649 | 1.5MΩ | ±10% | RC½ | composition |
| R559 | 1-246-659 | 270Ω | ±5% | ERD14T | carbon | R814 | 1-246-732 | 300kΩ | ±5% | ERD14T | carbon |
| R560 | 1-246-675 | 1,200Ω | ±5% | ERD14T | carbon | R901 | 1-201-676 | 750kΩ | ±10% | RC½L | composition |
| R561 | 1-246-612 | 3Ω | ±5% | ERD14T | carbon | R902 | 1-206-056 | 120Ω | ±10% | 2W | metal oxide |
| R562 | 1-246-618 | 5.1Ω | ±5% | ERD14T | carbon | | | | | | |
| R563 | 1-246-631 | 18Ω | ±5% | ERD14T | carbon | | | | | | |
| R564 | 1-246-655 | 180Ω | ±5% | ERD14T | carbon | VR301 | 1-221-998 | 500Ω-B | | adjustable | (AGC) |
| | | | | | | VR501 | 1-222-335 | 250kΩ-B | | variable | (Brightness) |
| R601 | 1-246-642 | 51Ω | ±5% | ERD14T | carbon | VR502 | 1-222-337 | 3kΩ-C | | variable | (Contrast) |
| R602 | 1-246-656 | 200Ω | ±5% | ERD14T | carbon | VR551 | 1-222-340 | 5kΩ-D | | variable (with SW) | (Volume) |
| R603 | 1-246-697 | 10kΩ | ±5% | ERD14T | carbon | VR601 | 1-222-184 | 1kΩ-B | | variable | (Hor. Hold) |
| R604 | 1-246-718 | 100kΩ | ±5% | ERD14T | carbon | VR701 | 1-222-336 | 2kΩ-B | | variable | (Ver. Hold) |
| R605 | 1-246-669 | 680Ω | ±5% | ERD14T | carbon | VR702 | 1-221-349 | 5kΩ-B | | adjustable | (Ver. Linearity) |
| R606 | 1-246-647 | 82Ω | ±5% | ERD14T | carbon | VR703 | 1-221-349 | 5kΩ-B | | adjustable | (Ver. Height) |
| R607 | 1-246-688 | 4,300Ω | ±5% | ERD14T | carbon | VR801 | 1-221-351 | 600kΩ-B | | adjustable | (Focus) |
| R608 | 1-246-685 | 3,300Ω | ±5% | ERD14T | carbon | | | | | | |
| R609 | 1-250-873 | 1kΩ | ±5% | RD12T | carbon | | | | | | |
| R610 | 1-246-677 | 1,500Ω | ±5% | ERD14T | carbon | | | | | | |
| R611 | 1-246-694 | 7,500Ω | ±5% | ERD14T | carbon | | | | | | |
| R613 | 1-246-667 | 560Ω | ±5% | ERD14T | carbon | | | | | | |
| R614 | 1-246-662 | 360Ω | ±5% | ERD14T | carbon | | | | | | |
| R615 | 1-246-664 | 430Ω | ±5% | ERD14T | carbon | | | | | | |
| R616 | 1-246-684 | 3kΩ | ±5% | ERD14T | carbon | | | | | | |
| R617 | 1-246-680 | 2kΩ | ±5% | ERD14T | carbon | | | | | | |
| | | | | | | | | | | | |
| R701 | 1-246-663 | 390Ω | ±5% | ERD14T | carbon | | | | | | |
| R702 | 1-246-688 | 4,300Ω | ±5% | ERD14T | carbon | | | | | | |
| R703 | 1-246-677 | 1,500Ω | ±5% | ERD14T | carbon | | | | | | |
| R704 | 1-246-629 | 15Ω | ±5% | ERD14T | carbon | | | | | | |
| R705 | 1-246-688 | 4,300Ω | ±5% | ERD14T | carbon | | | | | | |
| R706 | 1-246-688 | 4,300Ω | ±5% | ERD14T | carbon | | | | | | |
| R707 | 1-246-696 | 9,100Ω | ±5% | ERD14T | carbon | | | | | | |
| R708 | 1-246-680 | 2kΩ | ±5% | ERD14T | carbon | | | | | | |
| R709 | 1-246-680 | 2kΩ | ±5% | ERD14T | carbon | | | | | | |
| R710 | 1-246-695 | 8,200Ω | ±5% | ERD14T | carbon | | | | | | |
| * R711 | 1-246-678 | 1,600Ω | ±5% | ERD14T | carbon | | | | | | |
| | 1-246-679 | 1,800Ω | ±5% | ERD14T | carbon | | | | | | |
| | 1-246-680 | 2kΩ | ±5% | ERD14T | carbon | | | | | | |
| | 1-246-681 | 2,200Ω | ±5% | ERD14T | carbon | | | | | | |
| R712 | 1-246-660 | 300Ω | ±5% | ERD14T | carbon | | | | | | |
| R713 | 1-207-018 | 3Ω | ±5% | RW¼RL | wire wound | | | | | | |
| R714 | 1-207-018 | 3Ω | ±5% | RW¼RL | wire wound | | | | | | |
| R715 | 1-246-656 | 200Ω | ±5% | ERD14T | carbon | | | | | | |
| R716 | 1-246-702 | 15kΩ | ±5% | ERD14T | carbon | | | | | | |
| | | | | | | | | | | | |
| R801 | 1-246-673 | 1kΩ | ±5% | ERD14T | carbon | | | | | | |
| R803 | 1-246-649 | 100Ω | ±5% | ERD14T | carbon | | | | | | |

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* : to be selected

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> |
|-----------------|-----------------|---------------------------|
| L203 | 1-425-595 | RF coil |
| L204 | 1-425-596 | RF coil |
| L205 | 1-425-597 | RF coil |
| L207 | 1-403-544 | IFT transformer |
| L208 | 1-425-339 | coil, compensating 43W |
| L211 | 1-407-096 | 7 μ F, micro inductor |
| L213 | 1-421-210 | choke coil |
| L214 | 1-421-210 | choke coil |
| L215 | 1-423-147 | coil with core |
| L216 | 1-423-149 | coil with core |

CAPACITORS

| | | | |
|------|-----------|--------------|---------------------------|
| C201 | 1-101-564 | 100pF | $\pm 5\%$ 50WV ceramic |
| C202 | 1-101-561 | 30pF | $\pm 5\%$ 50WV ceramic |
| C204 | 1-101-559 | 15pF | $\pm 5\%$ 50WV ceramic |
| C205 | 1-101-561 | 30pF | $\pm 5\%$ 50WV ceramic |
| C206 | 1-101-561 | 30pF | $\pm 5\%$ 50WV ceramic |
| C207 | 1-101-587 | 1.3pF | ± 0.2 pF 50WV ceramic |
| C208 | 1-102-813 | 13pF | $\pm 5\%$ 50WV ceramic |
| C210 | 1-101-072 | 0.01 μ F | $\pm 80\%$ 50WV ceramic |
| C212 | 1-101-559 | 15pF | $\pm 5\%$ 50WV ceramic |
| C213 | 1-101-865 | 22pF | $\pm 5\%$ 50WV ceramic |
| C215 | 1-101-560 | 20pF | $\pm 5\%$ 50WV ceramic |
| C216 | 1-101-564 | 100pF | $\pm 5\%$ 50WV ceramic |
| C217 | 1-101-072 | 0.01 μ F | $\pm 80\%$ 50WV ceramic |
| C218 | 1-101-576 | 1.5pF | ± 0.2 pF 50WV ceramic |

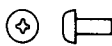
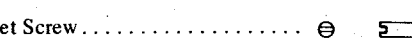
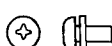






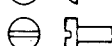
| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> |
|-----------------|-----------------|--|
| C219 | 1-101-560 | 20pF $\pm 5\%$ 50WV ceramic |
| C220 | 1-102-988 | 4pF ± 0.2 pF 50WV ceramic |
| C221 | 1-102-988 | 4pF ± 0.2 pF 50WV ceramic |
| C222 | 1-102-143 | 2pF ± 0.2 pF 50WV ceramic |
| C223 | 1-101-560 | 20pF $\pm 5\%$ 50WV ceramic |
| C225 | 1-102-455 | 0.001 μ F $\pm 20\%$ 50WV ceramic |
| C226 | 1-102-144 | 25pF $\pm 5\%$ 50WV ceramic |
| C227 | 1-101-584 | 2pF ± 0.2 pF 50WV ceramic |
| C228 | 1-101-072 | 0.01 μ F $\pm 80\%$ 50WV ceramic |
| C230 | 1-102-078 | 0.0018 μ F $\pm 200\%$ 50WV feed through |
| C231 | 1-102-078 | 0.0018 μ F $\pm 200\%$ 50WV feed through |
| C235 | 1-105-839-12 | 0.033 μ F $\pm 20\%$ 50WV mylar |

RESISTORS

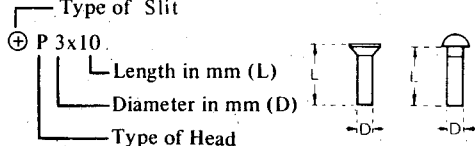
| | | | | | |
|------|-----------|----------------|-----------|--------------------|--------|
| R203 | 1-244-462 | 360 Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R204 | 1-244-452 | 130 Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R205 | 1-244-493 | 6,800 Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R206 | 1-244-485 | 3,300 Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R207 | 1-244-473 | 1k Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R208 | 1-244-487 | 3,900 Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R209 | 1-244-480 | 2k Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R210 | 1-244-494 | 7,500 Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R211 | 1-244-485 | 3,300 Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R212 | 1-244-497 | 10k Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |
| R213 | 1-244-497 | 10k Ω | $\pm 5\%$ | RD $\frac{1}{8}$ P | carbon |

When ordering replacement parts, you should use **PART NUMBER** listed on the Parts List or shown in the **EXPLODED VIEW**.
The reference number should not be used for ordering purposes.

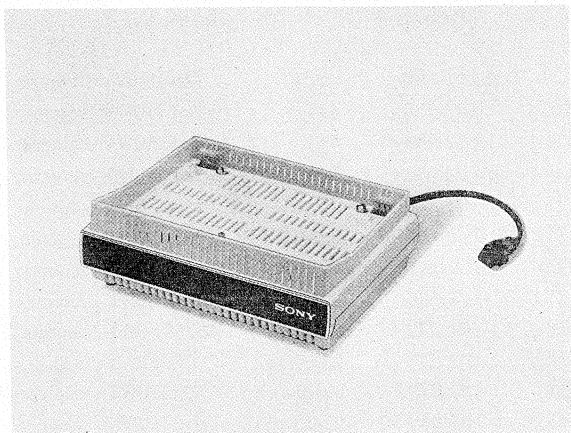
Hardware Nomenclature

| | | | |
|---|---|--------------------------------------|---|
| P — Pan Head Screw |  | SC — Set Screw |  |
| PS — Pan Head Screw with Spring Washer |  | E — Retaining Ring (E Washer) |  |
| K — Flat Countersunk Head Screw |  | W — Washer | |
| B — Binding Head Screw |  | SW — Spring Washer | |
| RK — Oval Countersunk Head Screw |  | LW — Lock Washer | |
| T — Truss Head Screw |  | N — Nut | |
| R — Round Head Screw |  | | |
| F — Flat Fillister Head Screw |  | | |

— Example —



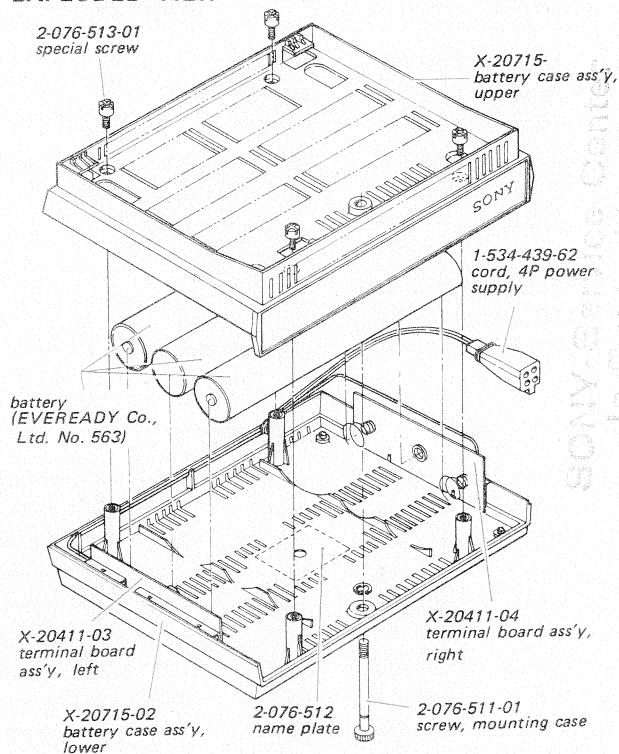
TV-510U BATTERY PACK



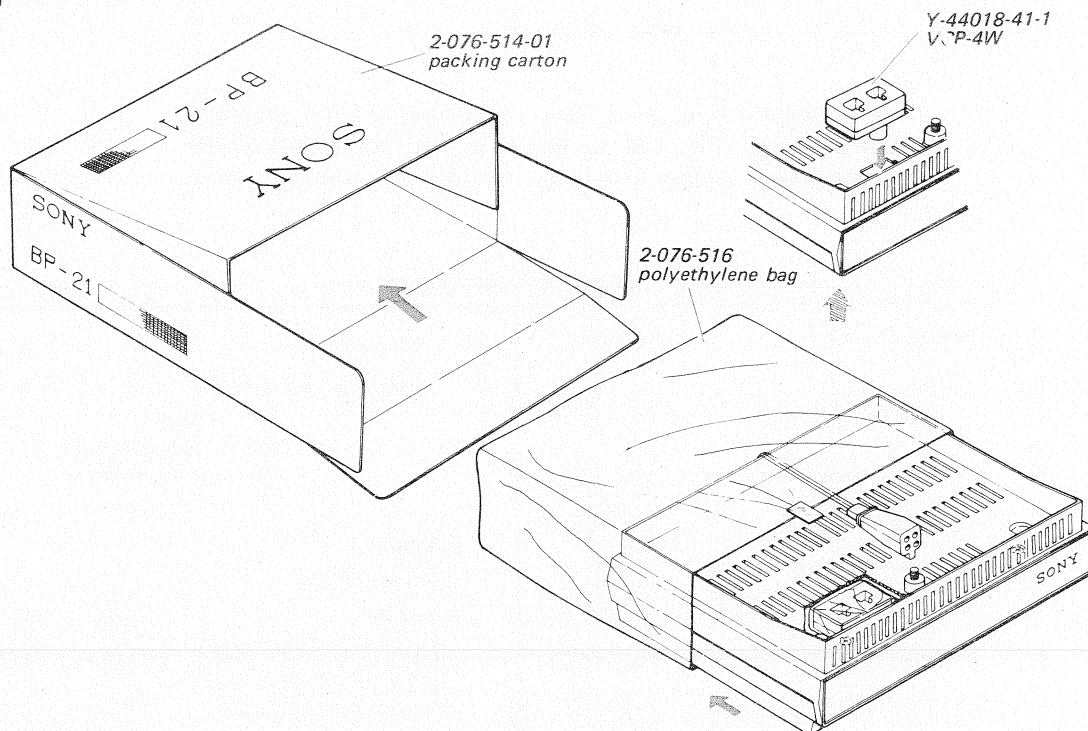
SPECIFICATIONS

| | |
|-----------------------|---|
| Final Discharge Time: | 2 hours |
| Full Charge Time: | 12 hours |
| Batteries: | EVEREADY No. 563 |
| Dimensions: | 8" (W) x 6 $\frac{3}{8}$ " (D) x 2 $\frac{6}{8}$ " (H) (204 mm x 161 mm x 71 mm) |
| Weight: | 15 oz (400 g) |

EXPLODED VIEW



PACKING



SONY CORPORATION

SONY CORPORATION

COMPLETE SPARE PARTS LIST CHANGE NOTICE

MODEL TV-510U (USA & CANADA Model)

(Production change, ~~correction, addition, deletion~~)

is done onto this parts list.

Replace the former copy with this new one. Refer to
this parts list when you order the service parts.

SONY®

Complete Spare Parts List

Model **TV-510U**

U. S. A. MODEL
CANADA MODEL

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR TV-510U

(Canada and USA Model)

OCTOBER, 1971

| <u>Part No.</u> | <u>Description</u> | <u>Unit Price</u> |
|----------------------------|--|-------------------|
| 1. <u>MECHANICAL PARTS</u> | | |
| X-40147-01-1 | Cabinet Ass'y, front ----- | \$0.73 |
| X-40147-02 | Protector Ass'y ----- | 0.90 |
| X-40147-03 | Carrying Handle Ass'y ----- | 0.20 |
| X-40147-04 | Knob Ass'y, channel selector ----- | 0.17 |
| X-40147-05 | Knob Ass'y, fine tuning ----- | 0.15 |
| X-40147-06 | UHF Dial Ass'y ----- | 0.09 |
| X-40147-07 | Knob Ass'y, control (A) ----- | 0.12 |
| X-40147-08 | Knob Ass'y, control (B)' ----- | 0.04 |
| X-40147-09 | Bushing Ass'y, insulating ----- | 0.04 |
| X-43020-07 | Knob Ass'y, uhf dial ----- | 0.12 |
| 2-825-001 | Spacer, transistor ----- | 0.01 |
| 4-003-346 | Clamp, antenna ----- | 0.04 |
| 4-004-127 | Cushion, picture tube ----- | 0.08 |
| 4-005-422 | Grounding Spring ----- | 0.02 |
| 4-005-615 | Cover, terminal ----- | 0.01 |
| 4-006-238-03 | Screw, tuner mounting ----- | 0.01 |
| 4-006-255 | Terminal Pin ----- | 0.01 |
| 4-008-361 | Heat Sink, TO-1 ----- | 0.02 |
| 4-009-536 | SIF Shield Case, upper ----- | 0.02 |
| ◆ 4-015-728 | SIF Shield Case, upper ----- | 0.03 |
| 4-009-537 | SIF Shield Case, lower ----- | 0.02 |
| ◆ 4-015-729 | SIF Shield Case, lower ----- | 0.02 |
| 4-009-538 | Fiber Shield Case ----- | 0.02 |
| 4-010-012 | Cylindrical Shield, micro inductor ----- | 0.03 |
| 4-012-812 | VIF Shield Case, upper ----- | 0.03 |
| ◆ 4-015-730 | VIF Shield Case, upper ----- | 0.02 |
| 4-010-506 | VIF Shield Case, lower ----- | 0.01 |

Note: The components indicated with the symbol ◆ are used for the following sets;

USA Model; Serial No. 48001 and later
CANADA Model; Serial No. 10201 and later

| <u>Part No.</u> | <u>Description</u> | <u>Unit Price</u> |
|-----------------|--|-------------------|
| ◆ 4-015-731 | VIF Shield Case, lower ----- | \$0.01 |
| 4-011-434-31 | Knob, control C ----- | 0.01 |
| 4-014-731-01 | Nameplate ----- | 0.02 |
| 4-014-732 | Connecting Plate, battery case ----- | 0.03 |
| 4-014-734 | Bracket, picture tube mounting ----- | 0.12 |
| 4-014-735 | Cabinet, rear ----- | 0.54 |
| 4-014-736 | Shielder, heat ----- | 0.03 |
| 4-014-737 | Chassis ----- | 0.38 |
| 4-014-738 | Bracket, tuner mounting ----- | 0.07 |
| 4-014-739 | Bracket, power plug mounting ----- | 0.07 |
| 4-014-740 | Heat Sink, deflection circuit board ----- | 0.03 |
| 4-014-741 | Shield Case, audio circuit board ----- | 0.02 |
| 4-014-742 | Clamp, electrolytic capacitor mounting ----- | 0.06 |
| 4-014-743 | Bracket A, volume control mounting ----- | 0.01 |
| 4-014-744 | Bracket B, volume control mounting ----- | 0.04 |
| 4-014-745 | Bracket C, volume control mounting ----- | 0.03 |
| 4-010-017-02 | Caution Label, high voltage ----- | 0.01 |
| 4-014-753 | Ornamental Plate ----- | 0.14 |
| 4-014-754 | Shield Plate ----- | 0.01 |

II. MOUNTING HARDWARES

(per 100)

| | | |
|--------------|---------------------------------------|----------|
| 7-682-125-01 | Screw, machine phill P 2 x 5 ----- | 0.10/100 |
| 7-682-146-01 | Screw, machine phill P 3 x 5 ----- | 0.12/100 |
| 7-682-198-01 | Screw, machine phill P 3 x 50 ----- | 0.62/100 |
| 7-682-149-13 | Screw, machine phill P 3 x 10 ----- | 0.32/100 |
| 7-682-248-04 | Screw, machine phill K 3 x 8 ----- | 0.48/100 |
| 7-621-559-69 | Screw, machine phill K 2.6 x 12 ----- | 0.69/100 |
| 7-621-722-57 | Screw, tapping phill BV 3 x 8 ----- | 0.23/100 |
| 7-621-722-63 | Screw, tapping phill BV 3 x 10 ----- | 0.24/100 |
| 7-621-724-32 | Screw, tapping phill R 4 x 8 ----- | 0.38/100 |
| 7-621-724-44 | Screw, tapping phill R 4 x 10 ----- | 0.40/100 |
| 7-684-013-01 | Nut 3 ϕ ----- | 0.28/100 |
| 7-622-107-05 | Nut 2.6 ϕ ----- | 0.27/100 |
| 7-623-108-17 | Washer 3 ϕ ----- | 0.10/100 |
| 7-623-110-15 | Washer 4 ϕ ----- | 0.22/100 |
| 7-623-207-22 | Washer, spring 2.6 ϕ ----- | 0.05/100 |
| 7-623-208-22 | Washer, spring 3 ϕ ----- | 0.06/100 |
| 7-623-408-06 | Washer, external teeth 3 ϕ ----- | 0.19/100 |
| 7-623-510-21 | Tug Washer 4 ϕ ----- | 0.66/100 |

2/18 (TV-510U Canada and USA Model)

(TV-5-5R)

| <u>Ref.</u> <u>No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Unit</u> <u>Price</u> |
|---------------------------|-----------------|--------------------|-----------------------------|
|---------------------------|-----------------|--------------------|-----------------------------|

III. ELECTRICAL PARTS

Note: The components indicated with the symbol ♦ are used for the following sets;

USA Model: Serial No.48001 and later
CANADA Model: Serial No.10201 and later

General

| | | |
|----------------|--|--------|
| 1-463-008 | UHF Tuner Ass'y (BT-181) ----- | \$4.20 |
| 8-980-132-15 | VHF Tuner Ass'y (BT-443Wu) ----- | 5.19 |
| 8-980-140-25 | Signal Circuit Board (BC), complete ----- | 8.17 |
| ♦ 8-980-191-25 | Signal Circuit Board (BC), complete ----- | 7.41 |
| 8-980-168-35 | Deflection Circuit Board (EF), complete ----- | 10.51 |
| 8-980-168-45 | Sound Circuit Board (S), complete ----- | 2.31 |
| 8-980-168-55 | Power Supply Circuit Board (P), complete ----- | 0.94 |

Semiconductors

| | | |
|--------|---------------------------|------|
| Q301 | Transistor, 2SC657 ----- | 0.30 |
| Q302 | Transistor, 2SC657 ----- | 0.30 |
| Q303 | Transistor, 2SC629 ----- | 0.25 |
| Q304 | Transistor, 2SB382 ----- | 0.21 |
| ♦ Q304 | Transistor, 2SA678 ----- | 0.17 |
| Q305 | Transistor, 2SB382 ----- | 0.21 |
| ♦ Q305 | Transistor, 2SA677 ----- | 0.15 |
| Q401 | Transistor, 2SC403A ----- | 0.14 |
| Q402 | Transistor, 2SC403A ----- | 0.14 |
| ♦ Q402 | - | |
| Q403 | Transistor, 2SC403A ----- | 0.14 |
| ♦ Q403 | - | |
| Q501 | Transistor, 2SC352A ----- | 0.38 |
| Q551 | Transistor, 2SC633A ----- | 0.14 |
| Q552 | Transistor, 2SB383 ----- | 0.68 |
| Q553 | Transistor, 2SD72 ----- | 0.39 |
| Q554 | Transistor, 2SB382 ----- | 0.21 |
| Q601 | Transistor, 2SA610 ----- | 0.21 |

3/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Unit Price</u> |
|---------------------|-----------------|---------------------------|-----------------------|
| Q701 | | Transistor, 2SC633A ----- | \$0.14 |
| Q702 | | Transistor, 2SB382 ----- | 0.21 |
| Q703 | | Transistor, 2SD29 ----- | 0.42 |
| Q801 | | Transistor, 2SB324 ----- | 0.28 |
| Q802 | | Transistor, 2SC756 ----- | 0.42 |
| D301 | | Diode, 1T261 ----- | 0.05 |
| D302 | | Diode, 1T22 ----- | 0.05 |
| ◆ D302 | | Diode, 1T22A ----- | 0.05 |
| D401 | | Diode, 1T243 ----- | 0.07 |
| ◆ D401 | | Diode, 1T374 ----- | 0.11 |
| D402 | | Diode, 1T23 ----- | 0.05 |
| ◆ D402 | | - | |
| D403 | | Diode, 1T23 ----- | 0.05 |
| ◆ D403 | | - | |
| D501 | | Diode, 1T22A ----- | 0.05 |
| D601 | | Diode, 1T22A ----- | 0.05 |
| D602 | | Diode, 1T22A ----- | 0.05 |
| D701 | | Diode, 1T22A ----- | 0.05 |
| D702 | | Diode, 1T22A ----- | 0.05 |
| D801 | | Diode, HFSD1Z ----- | 0.12 |
| D802 | | Diode, 10D2 ----- | 0.11 |
| D803 | | Diode, UFSD1A ----- | 0.21 |
| D901 | | Diode, 10D2 ----- | 0.11 |
| D902 | | Diode, 10D2 ----- | 0.11 |
| D903 | | Diode, 10D2 ----- | 0.11 |
| Th301 | 8-690-003 | Thermistor, S90 ----- | 0.03 |
| Th302 | 8-690-006 | Thermistor, S1250 ----- | 0.03 |
| Th551 | 8-691-001 | Thermistor, CS-120 ----- | 0.06 |
| IC401 | 8-759-101-60 | IC, μ PC-16C ----- | 1.29 |

4/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| <u>Ref.</u> <u>No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Unit</u> <u>Price</u> |
|---------------------------|-----------------|--|-----------------------------|
| <u>Coils</u> | | | |
| L7 | 1-407-178 | 1 μ H micro inductor ----- | \$0.04 |
| L301 | 1-409-160-31 | 41.25 MHz trap coil ----- | 0.09 |
| L302 | 1-409-160-21 | 47.25 MHz trap coil ----- | 0.09 |
| L303 | 1-409-160-21 | 39.75 MHz trap coil ----- | 0.09 |
| L304 | 1-409-170 | 33.75 MHz trap coil ----- | 0.12 |
| L305 | 1-407-178 | 1 μ H micro inductor ----- | 0.04 |
| ◆ L305 | 1-407-520 | 0.6 μ H micro inductor ----- | 0.08 |
| L306 | 1-407-178 | 1 μ H micro inductor ----- | 0.04 |
| ◆ L306 | 1-407-520 | 0.6 μ H micro inductor ----- | 0.08 |
| L307 | 1-407-157 | 10 μ H micro inductor ----- | 0.03 |
| ◆ L307 | 1-407-178 | 1 μ H micro inductor ----- | 0.04 |
| L308 | 1-407-184 | 3.3 μ H micro inductor ----- | 0.05 |
| ◆ L308 | 1-407-157 | 10 μ H micro inductor ----- | 0.03 |
| L309 | 1-407-173 | 220 μ H micro inductor ----- | 0.03 |
| ◆ L309 | 1-407-184 | 3.3 μ H micro inductor ----- | 0.05 |
| L310 | 1-407-184 | 3.3 μ H micro inductor ----- | 0.05 |
| ◆ L310 | | - | |
| L311 | 1-407-178 | 1 μ H micro inductor ----- | 0.04 |
| ◆ L311 | 1-407-184 | 3.3 μ H micro inductor ----- | 0.05 |
| L401 | 1-407-178 | 1 μ H micro inductor ----- | 0.04 |
| L402 | 1-409-036 | 4.5 MHz trap coil ----- | 0.10 |
| ◆ L402 | 1-409-179 | 4.5 MHz trap coil ----- | 0.11 |
| L403 | 1-407-187 | 5.6 μ H micro inductor ----- | 0.04 |
| ◆ L403 | | - | |
| L501 | 1-407-172 | 180 μ H micro inductor ----- | 0.03 |
| L601 | 1-407-165 | 47 μ H micro inductor ----- | 0.03 |
| L701 | 1-421-127 | Choke Coil, vertical output ----- | 0.34 |
| L801 | 1-421-013-11 | 25 μ H filter inductor ----- | 0.04 |
| L803 | 1-413-012-12 | Coil, horizontal stabilizing ----- | 0.14 |
| L901 | 1-421-150-12 | Filter Choke Coil, power rectifier ----- | 0.36 |

5/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|---------------------|--------------|---|---------------|
| <u>Transformers</u> | | | |
| T302 | 1-403-701 | Transformer, video i-f; VIFT-2 ----- | \$0.12 |
| T303 | 1-403-702 | Transformer, video i-f; VIFT-3 ----- | 0.12 |
| ◆ T303 | 1-403-727 | Transformer, video i-f; VIFT-3 ----- | 0.12 |
| T401 | 1-403-348 | Transformer, sound i-f; SIFT-1 ----- | 0.12 |
| ◆ T401 | 1-403-362 | Transformer, sound i-f; SIFT-1 ----- | 0.12 |
| T402 | 1-403-349 | Transformer, sound i-f; SIFT-2 ----- | 0.13 |
| ◆ T402 | 1-403-361 | Transformer, sound i-f; SIFT-2 ----- | 0.12 |
| T403 | 1-403-313 | Transformer, sound i-f; SIFT-3 ----- | 0.27 |
| ◆ T403 | 1-403-361 | Transformer, sound i-f; SIFT-3 ----- | 0.12 |
| T701 | 1-435-008-12 | Transformer, vertical osc.; VBT ----- | 0.14 |
| | 1-435-008-11 | Transformer, vertical osc.; VBT ----- | 0.14 |
| T801 | 1-435-016-11 | Transformer, horizontal osc.; HBT ----- | 0.16 |
| T802 | 1-437-004-11 | Transformer, horizontal drive; HDT ----- | 0.21 |
| T803 | 1-453-625 | High Voltage Cage Block; HOT ----- | 3.12 |
| T901 | 1-441-618 | Transformer, power; PT ----- | 1.28 |
| <u>Capacitors</u> | | | |
| C301 | 1-101-957 | 7 pF ± 0.5 pF 50 WV ceramic ----- | 0.02 |
| ◆ C301 | 1-102-858 | 10 pF ± 0.5 pF 50 WV ceramic ----- | 0.02 |
| C302 | 1-101-969 | 5 pF ± 0.5 % 50 WV ceramic ----- | 0.03 |
| ◆ C302 | 1-102-882 | 4 pF ± 0.25 pF 50 WV ceramic ----- | 0.02 |
| C303 | 1-101-969 | 5 pF ± 0.5 % 50 WV ceramic ----- | 0.03 |
| C304 | 1-101-832 | 9 pF ± 0.2 pF 50 WV ceramic ----- | 0.01 |
| ◆ C304 | 1-102-856 | 5 pF ± 0.5 pF 50 WV ceramic ----- | 0.03 |
| C305 | 1-101-583 | 60 pF ± 5 % 50 WV ceramic ----- | 0.02 |
| ◆ C305 | 1-102-664 | 9 pF ± 0.5 pF 50 WV ceramic ----- | 0.02 |
| C306 | 1-101-057 | 80 pF ± 5 % 50 WV ceramic ----- | 0.02 |
| ◆ C306 | 1-102-856 | 5 pF ± 0.5 pF 50 WV ceramic ----- | 0.03 |
| C307 | 1-101-892 | 82 pF ± 5 % 50 WV ceramic ----- | 0.02 |
| ◆ C307 | | - | |
| C308 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| ◆ C308 | 1-102-863 | 82 pF ± 5 % 50 WV ceramic ----- | 0.03 |
| C309 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C310 | 1-101-961 | 12 pF ± 5 % 50 WV ceramic ----- | 0.02 |
| ◆ C310 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |

6/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|-----------|--|---------------|
| C311 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | \$0.02 |
| C312 | 1-101-455 | 0.001 μ F \pm 20 % 50 WV ceramic ----- | 0.02 |
| ◆ C312 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C313 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| ◆ C313 | 1-102-959 | 22 pF \pm 5 % 50 WV ceramic ----- | 0.01 |
| C314 | 1-101-961 | 12 pF \pm 5 % 50 WV ceramic ----- | 0.02 |
| ◆ C314 | 1-101-886 | 62 pF \pm 5 % 50 WV ceramic ----- | 0.01 |
| C315 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C316 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C317 | 1-101-455 | 0.001 μ F \pm 20 % 50 WV ceramic ----- | 0.02 |
| ◆ C317 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C318 | 1-101-940 | 2.5 pF \pm 10 % 50 WV ceramic ----- | 0.02 |
| ◆ C318 | 1-102-959 | 22 pF \pm 5 % 50 WV ceramic ----- | 0.01 |
| C319 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| ◆ C319 | 1-102-965 | 39 pF \pm 5 % 50 WV ceramic ----- | 0.01 |
| C320 | 1-121-398 | 10 μ F +100 -0 % 25 WV electrolytic - | 0.03 |
| ◆ C320 | 1-101-834 | 1.8 pF \pm 0.2 pF 50 WV ceramic ----- | 0.02 |
| C321 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C322 | - | - | - |
| ◆ C322 | 1-121-471 | 10 μ F +100 -10 % 16 WV electrolytic - | 0.04 |
| C323 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C324 | 1-101-587 | 1.3 pF \pm 0.2 pF 50 WV ceramic ----- | 0.03 |
| ◆ C324 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C325 | - | - | - |
| C326 | - | - | - |
| ◆ *C326 | 1-101-587 | 1.3 pF \pm 0.2 pF 50 WV ceramic ----- | 0.03 |
| ◆ *C326 | 1-101-576 | 1.5 pF \pm 0.2 pF 50 WV ceramic ----- | 0.02 |
| ◆ *C326 | 1-101-834 | 1.8 pF \pm 0.2 pF 50 WV ceramic ----- | 0.02 |
| ◆ *C326 | 1-102-935 | 2 pF \pm 0.25 pF 50 WV ceramic ----- | 0.01 |
| ◆ *C326 | 1-101-574 | 2.5 pF \pm 0.2 pF 50 WV ceramic ----- | 0.01 |
| ◆ *C326 | 1-102-936 | 3 pF \pm 0.25 pF 50 WV ceramic ----- | 0.01 |
| C327 | 1-101-955 | 5 pF \pm 0.5 pF 50 WV ceramic ----- | 0.02 |
| ◆ C327 | - | - | - |
| C328 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| ◆ C328 | - | - | - |
| C329 | 1-121-402 | 33 μ F +100 -0 % 10 WV electrolytic - | 0.05 |
| ◆ C329 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C330 | 1-101-006 | 0.047 μ F +100 -0 % 50 WV ceramic ----- | 0.03 |
| ◆ C330 | 1-121-402 | 33 μ F +100 -10 % 16 WV electrolytic - | 0.05 |
| C331 | 1-127-023 | 1 μ F \pm 20 % 10 WV electrolytic (alox) ----- | 0.06 |
| ◆ C331 | 1-102-942 | 5 pF \pm 0.5 pF 50 WV ceramic ----- | 0.01 |

* Mark to be selected.

7/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|--------------|-------------------------------|---|
| C332 | 1-105-669-12 | 0.0047 μ F ± 10 % | 50 WV mylar ----- \$0.02 |
| ◆ C332 | 1-101-004 | 0.01 μ F ± 100 -0 % | 50 WV ceramic ----- 0.01 |
| C333 | 1-127-024 | 2.2 μ F ± 20 % | 10 WV electrolytic (alox) ----- 0.07 |
| C333 | 1-121-421 | 220 μ F ± 100 -10 % | 16 WV electrolytic - 0.08 |
| C334 | 1-101-958 | 8 pF ± 0.5 pF | 50 WV ceramic ----- 0.01 |
| ◆ C334 | 1-101-004 | 0.01 μ F ± 100 -0 % | 50 WV ceramic ----- 0.01 |
| *C335 | 1-101-837 | 0.5 pF ± 0.2 pF | 50 WV ceramic ----- 0.02 |
| *C335 | 1-101-586 | 0.8 pF ± 0.2 pF | 50 WV ceramic ----- 0.02 |
| *C335 | 1-101-163 | 1 pF ± 20 % | 50 WV ceramic ----- 0.02 |
| ◆ C335 | - | - | - |
| C336 | - | - | - |
| ◆ C336 | 1-127-023 | 1 μ F ± 20 % | 10 WV electrolytic (alox) ----- 0.06 |
| C337 | 1-127-022 | 0.47 μ F ± 20 % | 10 WV electrolytic (alox) ----- 0.06 |
| ◆ C337 | 1-105-709-12 | 0.0047 μ F ± 10 % | 100 WV mylar ----- 0.02 |
| C338 | - | - | - |
| ◆ C338 | 1-127-024 | 2.2 μ F ± 20 % | 10 WV electrolytic (alox) ----- 0.07 |
| C339 | - | - | - |
| ◆ C339 | 1-127-022 | 0.47 μ F ± 20 % | 10 WV electrolytic (alox) ----- 0.06 |
| C340 | - | - | - |
| ◆ C340 | 1-102-978 | 220 pF ± 5 % | 50 WV ceramic ----- 0.02 |
| C341 | 1-101-455 | 0.001 μ F ± 20 % | 50 WV ceramic ----- 0.02 |
| ◆ C341 | 1-101-003 | 0.0047 μ F ± 100 -0 % | 50 WV ceramic ----- 0.02 |
| C342 | 1-101-969 | 5 pF ± 0.5 pF | 50 WV ceramic ----- 0.03 |
| ◆ C342 | 1-101-003 | 0.0047 μ F ± 100 -0 % | 50 WV ceramic ----- 0.02 |
| C401 | 1-103-610 | 240 pF ± 5 % | 50 WV polystyrene -- 0.03 |
| ◆ C401 | 1-103-663 | 330 pF ± 10 % | 50 WV polystyrene -- 0.03 |
| C402 | 1-103-663 | 330 pF ± 10 % | 50 WV polystyrene -- 0.03 |
| ◆ C402 | - | - | - |
| C403 | 1-101-896 | 100 pF ± 5 % | 50 WV ceramic ----- 0.02 |
| ◆ C403 | 1-101-004 | 0.01 μ F ± 100 -0 % | 50 WV ceramic ----- 0.01 |
| C404 | 1-101-004 | 0.01 μ F ± 100 -0 % | 50 WV ceramic ----- 0.01 |
| C405 | 1-101-956 | 6 pF ± 0.5 pF | 50 WV ceramic ----- 0.02 |
| ◆ C405 | 1-101-004 | 0.01 μ F ± 100 -0 % | 50 WV ceramic ----- 0.01 |
| C406 | 1-101-004 | 0.01 μ F ± 100 -0 % | 50 WV ceramic ----- 0.01 |
| C407 | - | - | - |
| ◆ C407 | 1-102-100 | 0.0022 μ F ± 20 % | 50 WV ceramic ----- 0.02 |

* Mark to be selected.

8/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|-----------|--|---------------|
| C408 | 1-101-004 | 0.01 μ F +100 -0 % 50 WV ceramic ----- | \$0.01 |
| ◆ C408 | 1-101-118 | 0.01 μ F \pm 20 % 50 WV ceramic ----- | 0.02 |
| C409 | 1-101-455 | 0.001 μ F \pm 20 % 50 WV ceramic ----- | 0.02 |
| ◆ C409 | 1-102-678 | 100 pF \pm 5 % 50 WV ceramic ----- | 0.03 |
| C410 | 1-101-958 | 8 pF \pm 5 pF 50 WV ceramic ----- | 0.01 |
| ◆ C410 | | - | |
| C411 | 1-101-004 | 0.01 μ F +100 -0 % 50 WV ceramic ----- | 0.01 |
| C412 | 1-101-006 | 0.04 μ F +100 -0 % 50 WV ceramic ----- | 0.03 |
| ◆ C412 | 1-121-471 | 10 μ F +100 -10 % 16 WV electrolytic - | 0.04 |
| C413 | 1-101-115 | 30 pF \pm 5 % 50 WV ceramic ----- | 0.02 |
| ◆ C413 | 1-101-004 | 0.01 μ F +100 -0 % 50 WV ceramic ----- | 0.01 |
| C414 | 1-101-571 | 140 pF \pm 5 % 50 WV ceramic ----- | 0.04 |
| ◆ C414 | 1-101-004 | 0.01 μ F +100 -0 % 50 WV ceramic ----- | 0.01 |
| C415 | 1-101-423 | 500 pF \pm 20 % 50 WV ceramic ----- | 0.02 |
| ◆ C415 | 1-101-896 | 100 pF \pm 5 % 50 WV ceramic ----- | 0.02 |
| C416 | 1-101-423 | 500 pF \pm 20 % 50 WV ceramic ----- | 0.02 |
| ◆ C416 | | - | |
| C417 | 1-121-398 | 10 μ F +100 -0 % 25 WV ceramic ----- | 0.03 |
| ◆ C417 | | - | |
| C418 | 1-101-118 | 0.01 μ F \pm 20 % 50 WV ceramic ----- | 0.02 |
| ◆ C418 | | - | |
| C419 | 1-101-118 | 0.01 μ F \pm 20 % 50 WV ceramic ----- | 0.02 |
| ◆ C419 | | - | |
| C420 | 1-101-002 | 0.002 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| ◆ C420 | | - | |
| C421 | | - | |
| C422 | 1-101-006 | 0.047 μ F +100 -0 % 50 WV ceramic ----- | 0.03 |
| ◆ C422 | | - | |
| C423 | 1-101-003 | 0.0047 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| ◆ C423 | | - | |
| C424 | 1-121-358 | 220 μ F +100 -0 % 16 WV electrolytic - | 0.07 |
| ◆ C424 | | - | |
| C501 | 1-121-469 | 10 μ F +100 -0 % 10 WV electrolytic - | 0.03 |
| C502 | 1-102-834 | 390 pF \pm 10 % 50 WV ceramic ----- | 0.02 |
| C503 | 1-113-124 | 0.2 μ F \pm 10 % 150 WV paper ----- | 0.09 |
| C504 | 1-121-246 | 4.7 μ F +100 -0 % 160 WV electrolytic - | 0.06 |
| C505 | 1-113-122 | 0.05 μ F \pm 20 % 500 WV paper ----- | 0.07 |
| C506 | 1-121-415 | 100 μ F +100 -0 % 16 WV electrolytic - | 0.06 |
| C507 | 1-121-398 | 10 μ F +100 -0 % 25 WV electrolytic - | 0.03 |
| C551 | 1-121-398 | 10 μ F +100 -0 % 25 WV electrolytic - | 0.03 |

* Mark to be selected.

9/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|--------------|--|---------------|
| C552 | 1-121-421 | 220 μ F +100 -0 % 16 WV electrolytic - | \$0.08 |
| C553 | 1-121-402 | 33 μ F +100 -0 % 10 WV electrolytic - | 0.05 |
| C554 | 1-121-421 | 220 μ F +100 -0 % 16 WV electrolytic - | 0.08 |
| C555 | 1-121-409 | 47 μ F +100 -0 % 16 WV electrolytic - | 0.04 |
| C556 | 1-105-717-12 | 0.022 μ F \pm 10 % 100 WV mylar ----- | 0.03 |
| C557 | 1-105-717-12 | 0.022 μ F \pm 10 % 100 WV mylar ----- | 0.03 |
| C558 | 1-127-019 | 0.1 μ F \pm 20 % 10 WV electrolytic (alox) ----- | 0.06 |
| C602 | 1-127-094 | 1 μ F \pm 20 % 25 WV electrolytic (alox) ----- | 0.08 |
| C603 | 1-105-715-12 | 0.015 μ F \pm 10 % 100 WV mylar ----- | 0.04 |
| C604 | 1-105-711-12 | 0.0068 μ F \pm 10 % 100 WV mylar ----- | 0.03 |
| C605 | 1-105-721-12 | 0.047 μ F \pm 10 % 100 WV mylar ----- | 0.05 |
| C606 | 1-121-415 | 100 μ F +100 -0 % 16 WV electrolytic - | 0.06 |
| C607 | 1-121-396 | 4.7 μ F +100 -0 % 50 WV electrolytic - | 0.04 |
| C608 | 1-127-091 | 0.22 μ F \pm 20 % 25 WV electrolytic (alox) ----- | 0.06 |
| C609 | 1-105-721-12 | 0.047 μ F \pm 10 % 100 WV mylar ----- | 0.05 |
| C610 | 1-105-717-12 | 0.022 μ F \pm 10 % 100 WV mylar ----- | 0.03 |
| C611 | 1-121-393 | 3.3 μ F +100 -0 % 50 WV electrolytic - | 0.03 |
| C701 | 1-127-232 | 4.7 μ F \pm 20 % 25 WV electrolytic (alox) ----- | 0.16 |
| C702 | 1-131-116 | 10 μ F \pm 20 % 16 WV electrolytic - | 0.35 |
| C703 | 1-121-398 | 10 μ F +100 -0 % 50 WV electrolytic - | 0.03 |
| C704 | 1-127-231 | 3.3 μ F \pm 20 % 25 WV electrolytic (alox) ----- | 0.16 |
| C705 | 1-121-420 | 220 μ F +100 -0 % 10 WV electrolytic - | 0.07 |
| C706 | 1-121-426 | 470 μ F +100 -0 % 16 WV electrolytic - | 0.12 |
| C707 | 1-105-727-12 | 0.15 μ F \pm 10 % 100 WV mylar ----- | 0.13 |
| C709 | 1-105-713-12 | 0.01 μ F \pm 10 % 100 WV mylar ----- | 0.03 |
| C801 | 1-105-715-12 | 0.015 μ F \pm 10 % 100 WV mylar ----- | 0.04 |
| C802 | 1-105-723-12 | 0.068 μ F \pm 10 % 100 WV mylar ----- | 0.06 |
| C803 | 1-105-729-12 | 0.22 μ F \pm 10 % 100 WV mylar ----- | 0.10 |
| *C804 | 1-105-721-12 | 0.047 μ F \pm 10 % 100 WV mylar ----- | 0.05 |
| *C804 | 1-105-725-12 | 0.1 μ F \pm 10 % 100 WV mylar ----- | 0.07 |
| *C804 | 1-105-727-12 | 0.15 μ F \pm 10 % 100 WV mylar ----- | 0.13 |
| *C804 | 1-105-729-12 | 0.22 μ F \pm 10 % 100 WV mylar ----- | 0.10 |
| C805 | 1-105-725-12 | 0.1 μ F \pm 10 % 100 WV mylar ----- | 0.07 |

* Mark to be selected.

10/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|--------------|---|---------------|
| C806 | 1-121-421 | 220 μ F +100 -0 % 16 WV electrolytic - | \$0.08 |
| C807 | 1-105-292-12 | 0.055 μ F \pm 10 % 250 WV mylar ----- | 0.10 |
| C808 | 1-105-274-12 | 0.01 μ F+0.005 μ F 200 WV mylar ----- | 0.12 |
| C809 | 1-105-753-12 | 0.01 μ F \pm 10 % 100 WV mylar ----- | 0.04 |
| C811 | 1-113-122 | 0.05 μ F \pm 20 % 500 WV paper ----- | 0.07 |
| C812 | 1-113-122 | 0.05 μ F \pm 20 % 500 WV paper ----- | 0.07 |
| C813 | 1-113-122 | 0.05 μ F \pm 20 % 500 WV paper ----- | 0.07 |
| C814 | 1-113-122 | 0.05 μ F \pm 20 % 500 WV paper ----- | 0.07 |
| C818 | 1-101-845 | 1000 pF +100 -0 % 500 WV ceramic ----- | 0.02 |
| C819 | 1-101-455 | 1000 pF \pm 20 % 50 WV ceramic ----- | 0.02 |
| C901 | 1-121-555 | 4000 μ F +100 -15 % 15 WV electrolytic - | 0.38 |
| C902 | 1-119-106 | 100 μ F \pm 20 % 16 WV electrolytic - | 0.04 |
| C903 | 1-121-555 | 4000 μ F +100 -15 % 15 WV electrolytic - | 0.38 |
| C904 | 1-101-003 | 0.005 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |
| C905 | 1-101-003 | 0.005 μ F +100 -0 % 50 WV ceramic ----- | 0.02 |

Resistors

All resistors are \pm 5 %, ERD14T, carbon unless otherwise specified.

| | | | |
|--------|-----------|--------------------------------------|------|
| R301 | 1-248-629 | 15 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R301 | 1-246-627 | 12 Ω ----- | 0.02 |
| R302 | | - | |
| ◆ R302 | 1-248-629 | 15 Ω \pm 10 % ERD14V ----- | 0.02 |
| R303 | 1-248-627 | 12 Ω ERD14V ----- | 0.02 |
| ◆ R303 | 1-246-649 | 100 Ω ----- | 0.02 |
| R304 | 1-248-649 | 100 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R304 | 1-246-669 | 680 Ω ----- | 0.02 |
| R305 | 1-248-659 | 270 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R305 | 1-246-705 | 22 k Ω ----- | 0.02 |
| R306 | 1-248-657 | 220 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R306 | 1-246-659 | 270 Ω ----- | 0.02 |
| R307 | 1-248-665 | 470 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R307 | 1-246-657 | 220 Ω ----- | 0.02 |
| R308 | 1-248-656 | 200 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R308 | 1-246-657 | 220 Ω ----- | 0.02 |
| R309 | 1-248-657 | 220 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R309 | 1-246-663 | 390 Ω ----- | 0.02 |
| R310 | 1-248-659 | 270 Ω \pm 10 % ERD14V ----- | 0.02 |
| ◆ R310 | 1-246-705 | 22 k Ω ----- | 0.02 |

11/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|-----------|---------------------------------------|---------------|
| R311 | 1-248-658 | 240 Ω $\pm 10\%$ ERD14V ----- | \$0.02 |
| ◆ R311 | 1-246-659 | 270 Ω ----- | 0.02 |
| R312 | 1-248-653 | 150 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R312 | 1-246-696 | 9100 Ω ----- | 0.02 |
| R313 | 1-248-696 | 9100 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R313 | 1-246-675 | 1200 Ω ----- | 0.02 |
| R314 | 1-248-675 | 1200 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R314 | 1-246-651 | 120 Ω ----- | 0.02 |
| R315 | 1-248-651 | 120 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R315 | 1-246-659 | 270 Ω ----- | 0.02 |
| R316 | 1-246-653 | 150 Ω ----- | 0.02 |
| ◆ R316 | 1-246-646 | 75 Ω ----- | 0.02 |
| R317 | 1-248-646 | 75 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R317 | 1-246-680 | 2 k Ω ----- | 0.02 |
| R318 | 1-248-680 | 2 k Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R318 | 1-246-655 | 180 Ω ----- | 0.02 |
| R319 | 1-248-655 | 180 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R319 | 1-246-690 | 5100 Ω ----- | 0.02 |
| R320 | 1-248-690 | 5100 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R320 | 1-246-682 | 2400 Ω ----- | 0.02 |
| R321 | 1-248-681 | 2200 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R321 | 1-246-671 | 820 Ω ----- | 0.02 |
| R322 | 1-248-671 | 820 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R322 | 1-244-634 | 24 Ω RD1/4CH ----- | 0.02 |
| R323 | 1-248-687 | 3900 Ω $\pm 10\%$ ERD14V ----- | 0.02 |
| ◆ R323 | 1-246-660 | 300 Ω $\pm 10\%$ ----- | 0.02 |
| R324 | 1-248-665 | 470 Ω ERD14V ----- | 0.02 |
| ◆ R324 | 1-246-668 | 620 Ω ----- | 0.02 |
| R325 | 1-246-677 | 1500 Ω ----- | 0.02 |
| *R326 | 1-248-706 | 24 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-707 | 27 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-708 | 30 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-710 | 36 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-711 | 39 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-712 | 43 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-713 | 47 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-714 | 51 k Ω ERD14V ----- | 0.02 |
| *R326 | 1-248-715 | 56 k Ω ERD14V ----- | 0.02 |
| ◆ R326 | 1-246-666 | 510 Ω ----- | 0.02 |
| R327 | 1-248-700 | 13 k Ω ERD14V ----- | 0.02 |
| ◆ *R327 | 1-246-706 | 24 k Ω ----- | 0.02 |
| ◆ *R327 | 1-246-707 | 27 k Ω ----- | 0.02 |

* Mark to be selected.

12/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| <u>Ref.</u> <u>No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Unit</u> <u>Price</u> |
|---------------------------|-----------------|----------------------------------|-----------------------------|
| ◆ *R327 | 1-246-708 | 30 kΩ ----- | \$0.02 |
| ◆ *R327 | 1-246-709 | 33 kΩ ----- | 0.02 |
| ◆ *R327 | 1-246-710 | 36 kΩ ----- | 0.02 |
| ◆ *R327 | 1-246-711 | 39 kΩ ----- | 0.02 |
| ◆ *R327 | 1-246-712 | 43 kΩ ----- | 0.02 |
| ◆ *R327 | 1-246-713 | 47 kΩ ----- | 0.02 |
| ◆ *R327 | 1-246-714 | 51 kΩ ----- | 0.02 |
| ◆ *R327 | 1-246-715 | 56 kΩ ----- | 0.02 |
| ◆ R328 | 1-248-655 | 180 Ω +10 % ERD14V ----- | 0.02 |
| ◆ R328 | 1-246-700 | 13 kΩ ----- | 0.02 |
| ◆ R329 | 1-248-665 | 470 Ω +10 % ERD14V ----- | 0.02 |
| ◆ R329 | 1-246-666 | 510 Ω ----- | 0.02 |
| ◆ R330 | 1-248-683 | 2700 Ω ERD14V ----- | 0.02 |
| ◆ R330 | 1-248-655 | 180 Ω ERD14V ----- | 0.02 |
| ◆ R331 | 1-248-671 | 820 Ω +10 % ERD14V ----- | 0.02 |
| ◆ R331 | 1-248-657 | 220 Ω ERD14V ----- | 0.02 |
| ◆ R332 | 1-248-657 | 220 Ω ERD14V ----- | 0.02 |
| ◆ R332 | 1-246-657 | 220 Ω ----- | 0.02 |
| ◆ *R333 | 1-248-703 | 18 kΩ ERD14V ----- | 0.02 |
| ◆ *R333 | 1-248-704 | 20 kΩ ERD14V ----- | 0.02 |
| ◆ *R333 | 1-248-705 | 22 kΩ ERD14V ----- | 0.02 |
| ◆ *R333 | 1-248-706 | 24 kΩ ERD14V ----- | 0.02 |
| ◆ *R333 | 1-246-701 | 15 kΩ ----- | 0.02 |
| ◆ *R333 | 1-246-702 | 16 kΩ ----- | 0.02 |
| ◆ *R333 | 1-246-703 | 18 kΩ ----- | 0.02 |
| ◆ *R333 | 1-246-704 | 20 kΩ ----- | 0.02 |
| ◆ *R333 | 1-246-705 | 22 kΩ ----- | 0.02 |
| ◆ *R333 | 1-246-706 | 24 kΩ ----- | 0.02 |
| ◆ R334 | 1-248-666 | 510 Ω ERD14V ----- | 0.02 |
| ◆ R334 | 1-246-680 | 2700 Ω ----- | 0.02 |
| ◆ R335 | 1-248-666 | 510 Ω ERD14V ----- | 0.02 |
| ◆ R335 | 1-246-671 | 820 Ω ----- | 0.02 |
| ◆ R336 | | - | |
| ◆ R336 | 1-246-679 | 1800 Ω ----- | 0.02 |
| ◆ R401 | 1-248-657 | 220 Ω ERD14V ----- | 0.02 |
| ◆ R401 | 1-246-646 | 75 Ω ----- | 0.02 |
| ◆ R402 | 1-248-664 | 430 Ω ERD14V ----- | 0.02 |
| ◆ R402 | 1-246-664 | 430 Ω ----- | 0.02 |
| ◆ R403 | 1-248-706 | 24 kΩ +10 % ERD14V ----- | 0.02 |
| ◆ R403 | 1-246-661 | 330 Ω ----- | 0.02 |
| ◆ R404 | 1-248-686 | 3600 Ω +10 % ERD14V ----- | 0.02 |
| ◆ R404 | 1-246-649 | 100 Ω ----- | 0.02 |

* Mark to be selected.

13/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|-----------|---------------------------------------|---------------|
| R405 | 1-248-673 | 1 k Ω ± 10 % ERD14V ----- | \$0.02 |
| ◆ R405 | 1-246-687 | 3900 Ω ----- | 0.02 |
| R406 | 1-248-649 | 100 Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R406 | 1-248-715 | 56 k Ω ----- | 0.02 |
| *R407 | 1-203-892 | 3600 Ω RD1/16L ----- | 0.02 |
| *R407 | 1-203-497 | 3900 Ω RD1/16L ----- | 0.02 |
| *R407 | 1-203-185 | 4700 Ω RD1/16L ----- | 0.02 |
| *R407 | 1-204-345 | 5100 Ω RD1/16L ----- | 0.02 |
| *R407 | 1-203-186 | 5600 Ω RD1/16L ----- | 0.02 |
| *R407 | 1-203-187 | 6800 Ω RD1/16L ----- | 0.02 |
| *R407 | 1-203-189 | 8200 Ω RD1/16L ----- | 0.02 |
| *R407 | 1-203-190 | 10 k Ω RD1/16L ----- | 0.02 |
| ◆ R407 | 1-246-673 | 1 k Ω ----- | 0.02 |
| R408 | 1-248-694 | 7500 Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R408 | | - | |
| R409 | 1-248-685 | 3300 Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R409 | 1-248-632 | 20 Ω ERD14V ----- | 0.02 |
| R410 | 1-248-670 | 750 Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R410 | | - | |
| R411 | 1-248-673 | 1 k Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R411 | | - | |
| R412 | 1-204-345 | 5100 Ω RD1/16L ----- | 0.02 |
| ◆ R412 | | - | |
| R413 | 1-248-649 | 100 Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R413 | | - | |
| R414 | 1-248-675 | 1200 Ω ERD14V ----- | 0.02 |
| ◆ R414 | | - | |
| R415 | 1-248-675 | 1200 Ω ERD14V ----- | 0.02 |
| ◆ R415 | | - | |
| R416 | 1-248-685 | 3300 Ω ERD14V ----- | 0.02 |
| ◆ R416 | | - | |
| R417 | 1-248-685 | 3300 Ω ERD14V ----- | 0.02 |
| ◆ R417 | | - | |
| R418 | 1-248-641 | 47 Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R418 | | - | |
| R419 | 1-248-715 | 56 k Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R419 | | - | |
| R420 | 1-248-673 | 1 k Ω ± 10 % ERD14V ----- | 0.02 |
| ◆ R420 | | - | |
| R501 | 1-246-697 | 10 k Ω ----- | 0.02 |
| *R502 | 1-246-712 | 43 k Ω ----- | 0.02 |

* Mark to be selected.

14/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| <u>Ref.</u> <u>No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Unit</u> <u>Price</u> |
|---------------------------|-----------------|--------------------|-----------------------------|
| *R502 | 1-246-713 | 47 kΩ ----- | \$0.02 |
| *R502 | 1-246-714 | 51 kΩ ----- | 0.02 |
| *R502 | 1-246-715 | 56 kΩ ----- | 0.02 |
| *R502 | 1-246-716 | 62 kΩ ----- | 0.02 |
| *R502 | 1-246-717 | 68 kΩ ----- | 0.02 |
| R503 | 1-246-651 | 120 Ω ----- | 0.02 |
| R504 | 1-246-690 | 5100 Ω ----- | 0.02 |
| R506 | 1-246-725 | 150 kΩ ----- | 0.02 |
| R507 | 1-246-679 | 1800 Ω ----- | 0.02 |
| R509 | 1-246-714 | 51 kΩ ----- | 0.02 |
| R551 | 1-246-697 | 10 kΩ ----- | 0.02 |
| R552 | 1-246-697 | 10 kΩ ----- | 0.02 |
| R553 | 1-246-679 | 1800 Ω ----- | 0.02 |
| R554 | 1-246-612 | 3 Ω ----- | 0.02 |
| R555 | 1-246-673 | 6800 Ω ----- | 0.02 |
| R556 | 1-246-675 | 1200 Ω ----- | 0.02 |
| R557 | 1-246-641 | 47 Ω ----- | 0.02 |
| R558 | 1-246-655 | 180 Ω ----- | 0.02 |
| R559 | 1-246-659 | 270 Ω ----- | 0.02 |
| R560 | 1-246-675 | 1200 Ω ----- | 0.02 |
| R561 | 1-246-612 | 3 Ω ----- | 0.02 |
| R562 | 1-246-618 | 5.1 Ω ----- | 0.02 |
| R563 | 1-246-631 | 18 Ω ----- | 0.02 |
| R564 | 1-246-655 | 180 Ω ----- | 0.02 |
| R601 | 1-246-642 | 51 Ω ----- | 0.02 |
| R602 | 1-246-656 | 200 Ω ----- | 0.02 |
| R603 | 1-246-697 | 10 kΩ ----- | 0.02 |
| R604 | 1-246-718 | 100 kΩ ----- | 0.02 |
| R605 | 1-246-669 | 680 Ω ----- | 0.02 |
| R606 | 1-246-647 | 82 Ω ----- | 0.02 |
| R607 | 1-246-688 | 4300 Ω ----- | 0.02 |
| R608 | 1-246-685 | 3300 Ω ----- | 0.02 |
| R609 | 1-250-873 | 1 kΩ RD12T ----- | 0.02 |
| R610 | 1-246-677 | 1500 Ω ----- | 0.02 |
| R611 | 1-246-694 | 7500 Ω ----- | 0.02 |
| R613 | 1-246-667 | 560 Ω ----- | 0.02 |
| R614 | 1-246-662 | 360 Ω ----- | 0.02 |
| R615 | 1-246-664 | 430 Ω ----- | 0.02 |
| R616 | 1-246-684 | 3 kΩ ----- | 0.02 |
| R617 | 1-246-680 | 2 kΩ ----- | 0.02 |

* Mark to be selected.

15/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| Ref. No. | Part No. | Description | Unit Price |
|-------------|-----------|--|---------------|
| R701 | 1-246-663 | 390 Ω ----- | \$0.02 |
| R702 | 1-246-688 | 4300 Ω ----- | 0.02 |
| R703 | 1-246-677 | 1500 Ω ----- | 0.02 |
| R704 | 1-246-629 | 15 Ω ----- | 0.02 |
| R705 | 1-246-688 | 4300 Ω ----- | 0.02 |
| R706 | 1-246-688 | 4300 Ω ----- | 0.02 |
| R707 | 1-246-696 | 9100 Ω ----- | 0.02 |
| R708 | 1-246-680 | 2 k Ω ----- | 0.02 |
| R709 | 1-246-680 | 2 k Ω ----- | 0.02 |
| R710 | 1-246-695 | 8200 Ω ----- | 0.02 |
| *R711 | 1-246-678 | 1600 Ω ----- | 0.02 |
| *R711 | 1-246-679 | 1800 Ω ----- | 0.02 |
| *R711 | 1-246-680 | 2 k Ω ----- | 0.02 |
| *R711 | 1-246-681 | 2200 Ω ----- | 0.02 |
| R712 | 1-246-660 | 300 Ω ----- | 0.02 |
| R713 | 1-207-018 | 3 Ω RW1/4RL wire wound ----- | 0.01 |
| R714 | 1-207-018 | 3 Ω RW1/4RL wire wound ----- | 0.01 |
| R715 | 1-246-656 | 200 Ω ----- | 0.02 |
| R716 | 1-246-702 | 15 k Ω ----- | 0.02 |
| R801 | 1-246-673 | 1 k Ω ----- | 0.02 |
| R803 | 1-246-649 | 100 Ω ----- | 0.02 |
| R804 | 1-246-662 | 360 Ω ----- | 0.02 |
| R806 | 1-246-697 | 10 k Ω ----- | 0.02 |
| R807 | 1-246-691 | 5600 Ω ----- | 0.02 |
| R808 | 1-246-694 | 7500 Ω ----- | 0.02 |
| R811 | 1-202-621 | 100 k Ω ± 10 % RC1/2, composition ---- | 0.02 |
| R812 | 1-202-621 | 100 k Ω ± 10 % RC1/2, composition ---- | 0.02 |
| R813 | 1-202-649 | 1.5 M Ω ± 10 % RC1/2, composition ---- | 0.02 |
| R814 | 1-246-732 | 300 k Ω ----- | 0.02 |
| R901 | 1-201-676 | 750 k Ω ± 10 % RC1/2L, composition --- | 0.02 |
| R902 | 1-206-056 | 120 Ω ± 10 % 2 W, metal oxide ----- | 0.04 |

* Mark to be selected.

16/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| <u>Ref.</u> <u>No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Unit</u> <u>Price</u> |
|---------------------------|-----------------|--|-----------------------------|
| VR301 | 1-221-998 | 500 Ω -B, adjustable (AGC) ----- | \$0.14 |
| VR301 | 1-222-805 | 470 Ω -B, adjustable (AGC) ----- | 0.12 |
| VR501 | 1-222-335 | 250 k Ω -B, variable (Brightness) ----- | 0.11 |
| VR502 | 1-222-337 | 3 k Ω -C, variable (Contrast) ----- | 0.13 |
| VR551 | 1-222-340 | 5 k Ω -D, variable (with SW) (Volume) ----- | 0.33 |
| VR601 | 1-222-184 | 1 k Ω -B, variable (Hor. Hold) ----- | 0.14 |
| VR701 | 1-222-336 | 2 k Ω -B, variable (Ver. Hold) ----- | 0.13 |
| VR702 | 1-221-349 | 5 k Ω -B, adjustable (Ver. Linearity) ----- | 0.09 |
| VR703 | 1-221-349 | 5 k Ω -B, adjustable (Ver. Height) ----- | 0.09 |
| VR801 | 1-221-351 | 600 k Ω -B, adjustable (Focus) ----- | 0.08 |
| <u>Miscellaneous</u> | | | |
| DET | 1-425-518 | Detector Block ----- | 0.13 |
| DET | 1-425-636 | Detector Block ----- | 0.15 |
| DY | 1-451-003-09 | Deflection Yoke Ass'y ----- | 1.75 |
| F901 | 1-532-118-12 | Fuse, 1.6 A ----- | 0.06 |
| | 1-501-118-11 | Telescopic Antenna ----- | 0.92 |
| | 1-502-100 | Speaker ----- | 0.52 |
| | 1-506-108 | SV-pin ----- | 0.01 |
| | 1-507-166 | Jack, external antenna ----- | 0.16 |
| | 1-507-174-33 | Jack, earphone, twin ----- | 0.10 |
| | 1-507-901-12 | Jack Nut ----- | 0.01 |
| | 1-508-156-41 | Power Plug with Switch ----- | 0.24 |
| | 1-526-084-21 | Socket, picture tube ----- | 0.37 |
| | 1-536-107 | Lug Terminal Board, 1-1 P ----- | 0.01 |
| | 1-417-019-32 | U-V Separator Ass'y ----- | 0.62 |
| | 1-534-379-41 | Output Cable, IF ----- | 0.13 |
| | 8-731-105-10 | Picture Tube (140CB4) ----- | 8.03 |

17/18 (TV-510U Canada and USA Model)

(VR-5-5R)

| <u>Part No.</u> | <u>Description</u> | <u>Unit Price</u> |
|-------------------------------------|---|-------------------|
| IV. <u>CARTON & ACCESSORIES</u> | | |
| 4-014-747-01 | Packing Carton ----- | \$0.19 |
| 4-014-749 | Cushion ----- | 0.10 |
| 4-014-750 | Polyethylene Bag, cabinet ----- | 0.09 |
| 3-813-651 | Color Label ----- | 0.01 |
| X-44910-02-1 | Warranty Card Ass'y ----- | 0.08 |
| X-40147-11-1 | Card Ass'y ----- | 0.06 |
| X-44900-03 | Polishing Cloth in Polyethylene Bag ----- | 0.03 |
| 4-495-257-11 | Instruction Manual ----- | 0.08 |
| 4-490-014-10 | Service Station List ----- | 0.03 |
| 4-002-839 | IBM Card ----- | 0.01 |
| 1-504-034-22 | Earphone (ME-20A) ----- | 0.14 |
| 1-534-519-17 | Cord, power supply ----- | 0.38 |

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR BP-21

OCTOBER, 1971

| <u>Part No.</u> | <u>Description</u> | <u>Unit Price</u> |
|-----------------|-----------------------------------|-------------------|
| X-20411-03 | Terminal Board Ass'y, left ----- | \$0.10 |
| X-20411-04 | Terminal Board Ass'y, right ----- | 0.10 |
| X-20765-01 | Battery Case Ass'y, upper ----- | 0.57 |
| X-20765-02 | Battery Case Ass'y, lower ----- | 0.52 |
| Y-44014-32-1 | VCP-1W ----- | 0.93 |
| 1-534-439-62 | Cord, 4 P power supply ----- | 0.21 |
| 2-076-511-01 | Screw, mounting case ----- | 0.14 |
| 2-076-512 | Nameplate ----- | 0.07 |
| 2-076-513 | Special Screw ----- | 0.07 |
| 2-076-514-01 | Packing Carton ----- | 0.12 |
| 2-076-515 | Master Carton ----- | 0.19 |
| 2-076-516 | Polyethylene Bag ----- | 0.05 |
| 2-076-517 | Cushion ----- | 0.05 |
| 2-076-518 | Instruction Label ----- | 0.02 |
| 3-790-913-11 | Instruction Manual ----- | 0.02 |
| 3-793-183 | Inspection Tag ----- | 0.01 |
| 7-624-108-01 | Retainer, E-4 ----- | 0.50/100 |
| 7-633-110-41 | Clamp, power supply cord ----- | 0.05 |